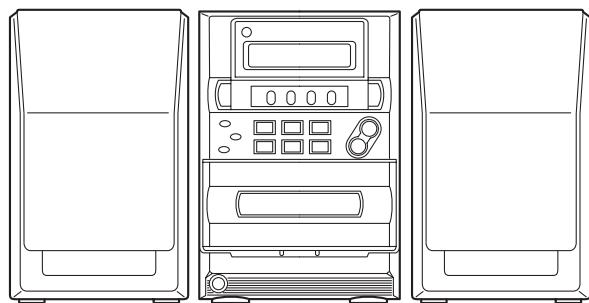




LCX-337

HA(S) EZ(S)

K(S) V(S)



SERVICE MANUAL

COMPACT DISC STEREO
SYSTEM

BASIC TAPE MECHANISM : 2ZM-1YR8N
BASIC CD MECHANISM : DA11T3C

aiwa
S/M Code No. 09-003-340-0N1



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SPECIFICATIONS

HA MODEL

MAIN UNIT

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

AM tuner section

Tuning range	530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	531 kHz to 1602 kHz (9 kHz step)
Antenna	350 μ V/m
	Loop antenna

Amplifier section

Power output	4 W + 4 W (4 ohms, T.H.D. 1%, 1 kHz)
	5 W + 5 W (4 ohms, T.H.D. 10%, 1 kHz)
Input	AUX: 500 mV
Outputs	SPEAKERS: accept speakers of 4 ohms or more PHONES (stereo minijack): accepts headphones of 32 ohms or more

Cassette deck section

Track format	4 tracks, 2 channels stereo
Frequency response	Normal tape: 50 Hz – 15000 Hz
Recording system	AC bias
Heads	Recording/playback \times 1 Erase head \times 1

Compact disc player section

Laser	Semiconductor laser ($\lambda = 780$ nm)
D-A converter	1 bit linear
Wow and flutter	Unmeasurable

SPEAKER SYSTEM

Speakers	100 mm cone type
Impedance	4 ohms
Dimensions (W \times H \times D)	140 \times 231.5 \times 198 mm
Weight	1.1 kg

GENERAL

Power requirements	120/220-240V AC, switchable 50/60 Hz
Power consumption	25 W
Dimensions of main unit (W \times H \times D)	160 \times 231.5 \times 197 mm
Weight of main unit	2.5 kg

- Design and specifications are subject to change without notice.

K MODEL

MAIN UNIT

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

MW tuner section

Tuning range	531 kHz to 1602 kHz (9 kHz step)
Antenna	530 kHz to 1710 kHz (10 kHz step)
	Loop antenna

LW tuner section

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 μ V/m
Antenna	Loop antenna

Amplifier section

Power output	Rated: 4 W + 4 W (4 ohms, T.H.D. 1%, 1 kHz/DIN 45500) Reference: 5 W + 5 W (4 ohms, T.H.D. 10%, 1 kHz/DIN 45324)
Input	AUX: 500 mV
Outputs	SPEAKERS: accept speakers of 4 ohms or more PHONES (stereo minijack): accepts headphones of 32 ohms or more

Cassette deck section

Track format	4 tracks, 2 channels stereo
Frequency response	Normal tape: 50 Hz – 15000 Hz
Recording system	AC bias
Heads	Recording/playback \times 1 Erase head \times 1

Compact disc player section

Laser	Semiconductor laser ($\lambda = 780$ nm)
D-A converter	1 bit linear
Wow and flutter	Unmeasurable

SPEAKER SYSTEM

Speakers	100 mm cone type
Impedance	4 ohms
Dimensions (W \times H \times D)	140 \times 231.5 \times 198 mm
Weight	1.1 kg

GENERAL

Power requirements	230V AC, 50 Hz
Power consumption	25 W
Dimensions of main unit (W \times H \times D)	160 \times 231.5 \times 197 mm
Weight of main unit	2.6 kg

- Design and specifications are subject to change without notice.

EZ MODEL

MAIN UNIT

FM tuner section

Tuning range

87.5 MHz to 108 MHz

13.2 dBf

75 ohms (unbalanced)

MW tuner section

Tuning range

531 kHz to 1602 kHz (9 kHz step)

530 kHz to 1710 kHz (10 kHz step)

Antenna

Loop antenna

LW tuner section

Tuning range

144 kHz to 290 kHz

Usable sensitivity

1400 μ V/m

Antenna

Loop antenna

Amplifier section

Power output

Rated: 4 W + 4 W (4 ohms, T.H.D.

1%, 1 kHz/DIN 45500)

Reference: 5 W + 5 W (4 ohms, T.H.D. 10%, 1 kHz/DIN 45324)

DIN MUSIC POWER

7 W + 7 W

AUX: 500 mV

SPEAKERS: accept speakers of 4 ohms or more

PHONES (stereo minijack): accepts headphones of 32 ohms or more

Input

Outputs

Cassette deck section

Track format

4 tracks, 2 channels stereo

Normal tape: 50 Hz – 15000 Hz

AC bias

Recording/playback \times 1

Erase head \times 1

Compact disc player section

Laser

Semiconductor laser ($\lambda = 780$ nm)

D-A converter

1 bit linear

Wow and flutter

Unmeasurable

SPEAKER SYSTEM

Speakers

100 mm cone type

Impedance

4 ohms

Dimensions (W \times H \times D)

140 \times 231.5 \times 198 mm

Weight

1.1 kg

GENERAL

Power requirements

230V AC, 50 Hz

Power consumption

25 W

Dimensions of main unit

160 \times 231.5 \times 197 mm

(W \times H \times D)

Weight of main unit

2.6 kg

● Design and specifications are subject to change without notice.

V MODEL

MAIN UNIT

FM tuner section

Tuning range

FM1 (OIRT): 65.0 MHz to 74.0 MHz

FM2 (CCIR): 87.5 MHz to 108 MHz

Usable sensitivity (IHF)

Antenna terminals

13.2 dBf

75 ohms (unbalanced)

AM tuner section

Tuning range

531 kHz to 1602 kHz (9 kHz step)

530 kHz to 1710 kHz (10 kHz step)

Antenna

Loop antenna

Amplifier section

Power output

Rated: 4 W + 4 W (4 ohms, T.H.D.

1%, 1 kHz/DIN 45500)

Reference: 5 W + 5 W (4 ohms, T.H.D.

10%, 1 kHz/DIN 45324)

AUX: 500 mV

SPEAKERS: accept speakers of 4 ohms or more

PHONES (stereo minijack): accepts headphones of 32 ohms or more

Cassette deck section

Track format

4 tracks, 2 channels stereo

Normal tape: 50 Hz – 15000 Hz

AC bias

Recording/playback \times 1

Erase head \times 1

Compact disc player section

Laser

Semiconductor laser ($\lambda = 780$ nm)

D-A converter

1 bit linear

Wow and flutter

Unmeasurable

SPEAKER SYSTEM

Speakers

100 mm cone type

Impedance

4 ohms

Dimensions (W \times H \times D)

140 \times 231.5 \times 198 mm

Weight

1.1 kg

GENERAL

Power requirements

230V AC, 50 Hz

Power consumption

25 W

Dimensions of main unit

160 \times 231.5 \times 197 mm

(W \times H \times D)

Weight of main unit

2.6 kg

● Design and specifications are subject to change without notice.

ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CLL-906-010		IB,EZ(9L)B<EZS>
1	8A-CLL-905-010		IB,K(E)B<KS>
1	8A-CLL-902-010		IB,LH(ESP)B<HAS>
1	8A-CLL-907-010		IB,V(ER)B<VJS>
2	8A-CLB-961-010		RC UNIT,RC-AAT11
3	87-A90-030-010		ANT,LOOP AM-NC C
4	87-043-115-010		ANT,FEEDER FM<HAS,VJS>
5	87-A90-118-010		ANT,WIRE FM (Z)<KS,EZS>
6	87-A91-017-010		PLUG,CONVERSION JT-0476<HAS>

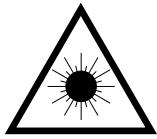
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PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylit-täälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

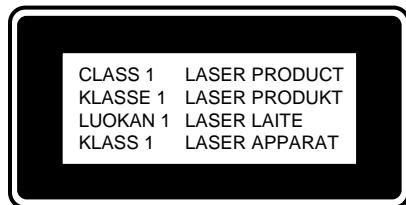
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

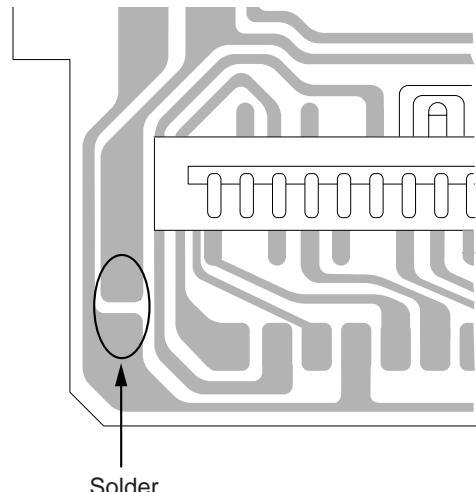


Precaution to replace Optical block (SF-P101NR)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.

PICK-UP Assy P.C.B



ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C113	87-010-197-080	CAP, CHIP 0.01 DM	
87-020-454-010	IC, DN6851			C114	87-010-408-080	CAP, ELECT 47-50V	
87-A20-734-010	IC, TDA2007A			C115	87-010-112-080	CAP, ELECT 100-16V	
87-A21-443-040	C-IC, M62495AFP			C116	87-010-101-080	CAP, ELECT 220-16	
8A-CLA-620-010	IC, LC867240A-5P33			C118	87-010-263-080	CAP, ELECT 100-10V	
87-A21-245-010	IC, RPM6938-V4			C119	87-010-190-080	S CHIP F 0.01	
87-A21-145-040	C-IC, BA4560F-E2			C120	87-010-401-080	CAP, ELECT 1-50V	
87-A20-446-010	C-IC, LA9241ML			C121	87-010-396-080	CAP, E 470-35 SME	
87-A20-459-010	C-IC, LC78622ED			C122	87-010-213-080	C-CAP, S 0.015-50 B	
87-A21-093-010	IC, LA6541D			C123	87-010-196-080	CHIP CAPACITOR, 0.1-25	
87-070-127-110	IC, LC72131 D			C124	87-010-402-080	CAP, ELECT 2.2-50V	
87-A20-913-010	IC, LA1837NL			C125	87-010-402-080	CAP, ELECT 2.2-50V	
				C126	87-010-408-080	CAP, ELECT 47-50V	
				C127	87-010-248-080	CAP, ELECT 220-10V	
				C128	87-010-393-080	CAP, ELECT 100-35V	
TRANSISTOR				C129	87-010-248-080	CAP, ELECT 220-10V	
87-026-610-080	TR, KTC3198GR			C130	87-010-393-080	CAP, ELECT 100-35V	
89-213-702-010	TR, 2SB1370 (1.8W)			C131	87-010-393-080	CAP, ELECT 100-35V	
87-A30-185-010	TR, 2SD1381FQR			C132	87-010-237-080	CAP, ELECT 1000-16V	
87-026-313-080	TR, DTC343TS			C133	87-010-237-080	CAP, ELECT 1000-16V	
87-026-609-080	TR, KTA1266GR			C136	87-010-197-080	CAP, CHIP 0.01 DM	
87-026-218-080	TR, DTC144ES (0.2W)			C137	87-010-197-080	CAP, CHIP 0.01 DM	
87-026-237-080	CHIP-TR, DTC124XK			C138	87-010-197-080	CAP, CHIP 0.01 DM	
87-026-223-080	TR, DTC143TK			C139	87-010-197-080	CAP, CHIP 0.01 DM	
89-320-011-080	TR, 2SC2001 (15W)			C143	87-010-401-080	CAP, ELECT 1-50V	
89-112-965-080	TR, 2SA1296 (0.75W)			C144	87-010-401-080	CAP, ELECT 1-50V	
89-109-521-080	TR, 2SA952 (0.6W)			C147	87-010-190-080	S CHIP F 0.01	
87-A30-091-080	FET, 2SJ460			C150	87-010-263-080	CAP, ELECT 100-10V	
87-A30-090-080	FET, 2SK2541			C151	87-010-263-080	CAP, ELECT 100-10V	
87-A30-151-080	TR, 2SA1993F			C152	87-010-182-080	C-CAP, S 2200P-50 B	
89-333-317-080	TR, 2SC3331 (0.5W)			C153	87-010-166-080	C-CAP, S 100P-50 SL	
87-026-291-080	TR, DTC124XS			C154	87-010-545-080	CAP, ELECT 0.22-50V	
87-A30-227-080	TR, 2SB1010Q			C155	87-010-545-080	CAP, ELECT 0.22-50V	
87-026-463-080	TR, 2SA933S (0.3W)			C157	87-010-404-080	CAP, ELECT 4.7-50V	
87-026-210-080	CHIP-TR, DTC144EK			C158	87-010-545-080	CAP, ELECT 0.22-50V	
87-026-239-080	TR, DTC114TK (0.2W)			C159	87-010-545-080	CAP, ELECT 0.22-50V	
87-A30-196-080	TR, 2SC4115SRS			C161	87-010-404-080	CAP, ELECT 4.7-50V	
89-327-143-080	TR, 2SC2714 (0.1W)			C162	87-010-405-080	CAP, ELECT 10-50V	
87-A30-072-080	C-TR, RT1P 144C			C163	87-010-405-080	CAP, ELECT 10-50V	
89-505-434-540	C-FET, 2SK543(4/5)<KS, EZS>			C164	87-010-405-080	CAP, ELECT 10-50V	
87-A30-257-080	C-TR, 2SD1306E<KS, EZS>			C165	87-010-405-080	CAP, ELECT 10-50V	
87-A30-074-080	C-TR, RT1P 141C<KS, EZS>			C166	87-010-404-080	CAP, ELECT 4.7-50V	
				C167	87-010-404-080	CAP, ELECT 4.7-50V	
				C169	87-010-197-080	CAP, CHIP 0.01 DM<KS, EZS>	
				C170	87-010-197-080	CAP, CHIP 0.01 DM<KS, EZS>	
DIODE				C171	87-010-404-080	CAP, ELECT 4.7-50V	
87-020-465-080	DIODE, 1SS133 (110MA)			C172	87-010-408-080	CAP, ELECT 47-50V	
87-A40-393-090	DIODE, 1N5402GW(F20)			C173	87-010-405-080	CAP, ELECT 10-50V	
87-070-334-080	ZENER, MTZJ10B			C175	87-010-237-080	CAP, ELECT 1000-16V	
87-017-932-080	ZENER, MTJ6.2B			C176	87-010-197-080	CAP, CHIP 0.01 DM<KS, EZS>	
87-A40-347-080	ZENER, MTZJ2.2B			C177	87-010-197-080	CAP, CHIP 0.01 DM<KS, EZS>	
87-070-136-080	ZENER, MTZJ5.1B			C184	87-A11-317-080	C-CAP, U 0.068<HAS, VJS>	
87-020-027-080	CHIP-DIODE 1SS184			C185	87-A11-317-080	C-CAP, U 0.068<HAS, VJS>	
87-027-825-080	ZENER, HZ9A3L			C300	87-010-986-080	C-CAP, S 820P-50 J CH	
87-A40-234-080	ZENER, MTZJ5.6A<KS, EZS>			C301	87-010-198-080	CAP, CHIP 0.022	
87-A40-270-080	C-DIODE, MC2838<KS, EZS>			C302	87-010-986-080	C-CAP, S 820P-50 J CH	
				C303	87-010-180-080	C-CER 1500P	
MAIN C.B				C304	87-010-180-080	C-CER 1500P	
C101	87-010-190-080	S CHIP F 0.01		C305	87-010-263-080	CAP, ELECT 100-10V	
C102	87-010-190-080	S CHIP F 0.01		C306	87-010-263-080	CAP, ELECT 100-10V	
C103	87-010-190-080	S CHIP F 0.01		C307	87-010-956-080	CHIP-CAP, S 0.068-25B	
C104	87-010-404-080	CAP, ELECT 4.7-50V		C308	87-010-956-080	CHIP-CAP, S 0.068-25B	
C105	87-010-403-080	CAP, ELECT 3.3-50V		C309	87-010-187-080	CAP CHIP S5600P	
C106	87-010-192-080	C-CAP, S 0.022-50 F		C310	87-010-187-080	CAP CHIP S5600P	
C107	87-010-192-080	C-CAP, S 0.022-50 F		C311	87-010-374-080	CAP, ELECT 47-10V	
C108	87-010-192-080	C-CAP, S 0.022-50 F		C312	87-010-546-080	CAP, ELECT 0.33-50V	
C109	87-010-192-080	C-CAP, S 0.022-50 F		C313	87-010-546-080	CAP, ELECT 0.33-50V	
C110	87-010-190-080	S CHIP F 0.01		C314	87-010-401-080	CAP, ELECT 1-50V	
C111	87-016-658-090	CAP, E 4700-35 SMG		C315	87-010-401-080	CAP, ELECT 1-50V	
C112	87-012-140-080	CAP 470P		C316	87-010-182-080	C-CAP, S 2200P-50 B	
				C317	87-010-182-080	C-CAP, S 2200P-50 B	

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C318	87-010-188-080	CAP,CHIP 6800P		C782	87-010-405-080	CAP, ELECT 10-50V	
C319	87-010-188-080	CAP,CHIP 6800P		C783	87-012-286-080	CAP, U 0.01-25	
C320	87-010-184-080	CHIP CAPACITOR 3300P(K)		C784	87-012-286-080	CAP, U 0.01-25	
C321	87-010-184-080	CHIP CAPACITOR 3300P(K)		C785	87-010-401-080	CAP, ELECT 1-50V<HAS,VJS>	
C322	87-010-321-080	CHIP CAPACITOR,82P(J)		C785	87-010-405-080	CAP, ELECT 10-50V<KS,EZS>	
C323	87-010-321-080	CHIP CAPACITOR,82P(J)		C786	87-010-401-080	CAP, ELECT 1-50V<HAS,VJS>	
C324	87-010-401-080	CAP, ELECT 1-50V		C786	87-010-405-080	CAP, ELECT 10-50V<KS,EZS>	
C325	87-010-374-080	CAP, ELECT 47-10V		C787	87-012-287-080	C-CAP,U 0.015-25 F<KS,EZS>	
C326	87-010-198-080	CAP, CHIP 0.022		C788	87-012-287-080	C-CAP,U 0.015-25 F<KS,EZS>	
C327	87-010-183-080	C-CAP,S 2700P-50 B		C789	87-012-275-080	C-CAP,U 1200P-50 B	
C328	87-010-183-080	C-CAP,S 2700P-50 B		C790	87-012-275-080	C-CAP,U 1200P-50 B	
C329	87-010-183-080	C-CAP,S 2700P-50 B		C791	87-010-405-080	CAP, ELECT 10-50V	
C330	88-266-810-810	CAP, CER 0.01<KS,EZS>		C793	87-012-275-080	C-CAP,U 1200P-50 B<KS,EZS>	
C331	87-010-382-080	CAP, ELECT 22-25V		C793	87-012-273-080	C-CAP,U 820P-50 B<HAS,VJS>	
C332	87-010-187-080	CAP CHIP S5600P		C794	87-010-406-080	CAP, ELECT 22-50	
C333	87-010-178-080	CHIP CAP 1000P		C795	87-010-596-080	CAP, S 0.047-16	
C334	87-010-175-080	CAP 560P		C796	87-010-403-080	CAP, ELECT 3.3-50V	
C335	87-012-158-080	C-CAP,S 390P-50 CH		C797	87-012-278-080	C-CAP,U 2200P-50 B<HAS>	
C336	87-012-158-080	C-CAP,S 390P-50 CH		C797	87-012-276-080	CAP, CHIP SS 1500 PBK<KS,EZS,VJS>	
C337	87-010-198-080	CAP, CHIP 0.022		C798	87-012-278-080	C-CAP,U 2200P-50 B<HAS>	
C350	87-010-178-080	CHIP CAP 1000P		C798	87-012-276-080	CAP, CHIP SS 1500 PBK<KS,EZS,VJS>	
C351	87-010-178-080	CHIP CAP 1000P		C799	87-010-829-080	CAP, U 0.047-16	
C353	87-010-190-080	S CHIP F 0.01		C803	87-018-047-080	CAP, CER 0.01-16V<KS,EZS>	
C701	87-010-381-080	CAP, ELECT 330-16V		C812	87-012-286-080	CAP, U 0.01-25	
C702	87-010-404-080	CAP, ELECT 4.7-50V		C814	87-012-286-080	CAP, U 0.01-25<KS,EZS>	
C703	87-012-286-080	CAP, U 0.01-25		C820	87-010-260-080	CAP, ELECT 47-25V	
C704	87-012-286-080	CAP, U 0.01-25		C821	87-012-286-080	CAP, U 0.01-25	
C709	87-012-195-080	C-CAP,U 100P-50CH		C822	87-012-286-080	CAP, U 0.01-25	
C711	87-010-263-080	CAP, ELECT 100-10V		C823	87-012-286-080	CAP, U 0.01-25	
C712	87-010-831-080	C-CAP,U,0.1-16F		C824	87-012-172-080	CAPACITOR CHIP U 10P CH<KS,EZS>	
C713	87-012-286-080	CAP, U 0.01-25<KS,EZS>		C828	87-010-196-080	CHIP CAPACITOR,0.1-25	
C714	87-012-286-080	CAP, U 0.01-25		C829	87-010-196-080	CHIP CAPACITOR,0.1-25	
C715	87-012-195-080	C-CAP,U 100P-50CH<KS,EZS>		C909	87-012-286-080	CAP, U 0.01-25<KS,EZS>	
C717	87-012-286-080	CAP, U 0.01-25		C910	87-012-286-080	CAP, U 0.01-25<KS,EZS>	
C719	87-012-286-080	CAP, U 0.01-25		C940	87-012-286-080	CAP, U 0.01-25<KS,EZS>	
C720	87-012-195-080	C-CAP,U 100P-50CH		C942	87-012-172-080	CAPACITOR CHIP U 10P CH<KS,EZS>	
C721	87-012-176-080	CAP 15P		C947	87-012-286-080	CAP, U 0.01-25<KS,EZS>	
C722	87-012-176-080	CAP 15P		C949	87-A10-039-080	C-CAP,U 470P-50 J CH<KS,EZS>	
C723	87-012-274-080	CHIP CAP,U 1000P-50B		C952	87-012-286-080	CAP, U 0.01-25<KS,EZS>	
C725	87-018-131-080	CAP, CER 1000P-50V<KS,EZS>		C958	87-010-197-080	CAP, CHIP 0.01 DM<KS,EZS>	
C727	87-010-196-080	CHIP CAPACITOR,0.1-25		C959	87-010-831-080	C-CAP,U,0.1-16F<KS,EZS>	
C728	87-010-248-080	CAP, ELECT 220-10V		C960	87-010-196-080	CHIP CAPACITOR,0.1-25	
C729	87-012-274-080	CHIP CAP,U 1000P-50B		C961	87-012-170-080	C-CAP,U 8P-50 CH<HAS,VJS>	
C731	87-012-286-080	CAP, U 0.01-25		C962	87-010-401-080	CAP, ELECT 1-50V<KS,EZS>	
C752	87-012-284-080	CAP, U 6800P-50<KS,EZS>		C963	87-010-196-080	CHIP CAPACITOR,0.1-25	
C753	87-012-195-080	C-CAP,U 100P-50CH<KS,EZS>		CF801	87-008-423-010	CERAMIC FILTER, SFE10.7<KS,EZS>	
C755	87-012-286-080	CAP, U 0.01-25<KS,EZS>		CF801	87-008-261-010	FILTER, SFE10.7MA5-A<HAS,VJS>	
C756	87-012-286-080	CAP, U 0.01-25		CF802	82-785-747-010	CF MS2 GHY R<KS,EZS>	
C757	87-012-188-080	C-CAP,U 47P-50 CH		CF802	87-008-261-010	FILTER, SFE10.7MA5-A<HAS,VJS>	
C758	87-012-167-080	C-CAP,U 5P-50 CH		CON301	87-099-832-010	CONN,8P S2M-8W	
C761	87-010-196-080	CHIP CAPACITOR,0.1-25<KS,EZS>		△F101	87-035-457-010	FUSE,3.15A 250V TW/C	
C762	87-012-286-080	CAP, U 0.01-25<KS,EZS>		FC101	87-033-213-080	CLAMP, FUSE	
C763	87-010-829-080	CAP, U 0.047-16		FC102	87-033-213-080	CLAMP, FUSE	
C764	87-012-337-080	C-CAP,U 56P-50 CH<HAS,VJS>		FFE801	A8-6ZA-19C-170	6ZA-1 YFEENC<KS,EZS>	
C765	87-012-286-080	CAP, U 0.01-25		FFE801	A8-6ZA-19F-170	6ZA-1 YFEVNC<VJS>	
C766	87-010-197-080	CAP, CHIP 0.01 DM<KS,EZS>		FFE801	A8-8ZA-193-070	8ZA-1 YFEUNC<HAS>	
C768	87-012-286-080	CAP, U 0.01-25		J101	8A-CLA-624-010	JACK,PIN 3P AUX	
C769	87-010-260-080	CAP, ELECT 47-25V		J102	87-A60-754-010	TERMINAL,SPK 4P MSP-154V-05	
C770	87-010-829-080	CAP, U 0.047-16		J103	87-A60-420-010	JACK,3.5 ST (MSC)	
C771	87-010-383-080	CAP, ELECT 33-25V		J104	87-099-608-010	JACK, DC HEC3800<KS,EZS>	
C772	87-010-829-080	CAP, U 0.047-16		J801	87-A60-202-010	TERMINAL,ANT 4P MSP-154V-02<HAS,VJS>	
C773	87-010-196-080	CHIP CAPACITOR,0.1-25		J801	87-A60-880-010	TERMINAL,ANT-PAL 2P MSP-313V-0<KS,EZS>	
C774	87-010-263-080	CAP, ELECT 100-10V		L101	87-005-366-010	COIL, 1UH	
C775	87-010-404-080	CAP, ELECT 4.7-50V		L102	87-005-366-010	COIL, 1UH	
C776	87-012-286-080	CAP, U 0.01-25		L104	87-005-676-080	COIL,2.2UH K LF5.0S	
C777	87-010-400-080	CAP, ELECT 0.47-50V		L302	87-007-342-010	COIL,OSC 85K BIAS	
C778	87-010-401-080	CAP, ELECT 1-50V		L771	87-A50-266-010	COIL,FM DET-2N(TOK)	
C779	87-010-401-080	CAP, ELECT 1-50V		L772	87-A90-733-010	FLTR,PCFAZH-450 (TOK)	
C780	87-010-196-080	CHIP CAPACITOR,0.1-25		L773	87-NF4-650-010	COIL,AM PACK 4N(TOK)	
C781	87-010-405-080	CAP, ELECT 10-50V		L781	87-005-847-080	COIL,2.2UH(CECS)<KS,EZS>	

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
L832	87-005-847-080		COIL, 2.2UH(CECS)<KS,EZS>	C531	87-010-374-080		CAP, ELECT 47-10V
L941	87-A50-020-010		COIL,ANT LW(COI)<KS,EZS>	C532	87-010-401-080		CAP, ELECT 1-50V
L942	87-A50-019-010		COIL,OSC LW(COI)<KS,EZS>	C533	87-010-184-080		CHIP CAPACITOR 3300P(K)
L981	87-NF4-650-010		COIL,AM PACK 4N(TOK)<HAS,VJS>	C534	87-010-197-080		CAP, CHIP 0.01 DM
L981	87-NF4-651-110		COIL,AM PACK2N(TOM)<KS,EZS>	C535	87-010-145-080		C-CAP,S 1P-50 CH
APR100	87-A90-091-080		PROTECTOR,2A 491	C536	87-010-312-080		C-CAP,S 15P-50 CH
R118	87-029-118-090		RES,FUSE 220-1/2W J	C537	87-010-166-080		C-CAP,S 100P-50 SL
R362	87-029-090-010		RES FUSE,22-1/4	C538	87-010-196-080		CHIP CAPACITOR,0.1-25
TC942	87-011-164-010		CAPACITOR,TRIMMER 30P<KS,EZS>	C539	87-010-404-080		CAP, ELECT 4.7-50V
WH101	87-099-043-010		CONN 2P EH	C540	87-010-196-080		CHIP CAPACITOR,0.1-25
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309	C541	87-010-405-080		CAP, ELECT 10-50V
				C542	87-010-369-080		C-CAP,S 0.033-25 K B
				C543	87-010-405-080		CAP, ELECT 10-50V
FRONT C.B				C545	87-010-197-080		CAP, CHIP 0.01 DM
				C546	87-010-374-080		CAP, ELECT 47-10V
C201	87-010-375-080		CAP,E 330-10 SME	C547	87-010-263-080		CAP, ELECT 100-10V
C202	87-012-350-080		C-CAP,1-25 F	C548	87-010-248-080		CAP, ELECT 220-10V
C203	87-010-197-080		CAP, CHIP 0.01 DM	C549	87-010-198-080		CAP, CHIP 0.022
C205	87-010-178-080		CHIP CAP 1000P	C550	87-010-248-080		CAP, ELECT 220-10V
C208	87-010-197-080		CAP, CHIP 0.01 DM	C551	87-010-166-080		C-CAP,S 100P-50 SL
C209	87-010-196-080		CHIP CAPACITOR,0.1-25	C552	87-010-197-080		CAP, CHIP 0.01 DM
C210	87-010-196-080		CHIP CAPACITOR,0.1-25	C553	87-010-374-080		CAP, ELECT 47-10V
C211	87-010-314-080		C-CAP,S 22P-50V	C555	87-010-403-080		CAP, ELECT 3.3-50V
C212	87-010-318-080		C-CAP,S 47P-50 CH	C556	87-010-197-080		CAP, CHIP 0.01 DM
C213	87-010-154-080		CAP CHIP 10P	C557	87-010-197-080		CAP, CHIP 0.01 DM
C214	87-012-149-080		C-CAP,S 30P-50 CH	C558	87-010-197-080		CAP, CHIP 0.01 DM
C215	87-010-312-080		C-CAP,S 15P-50 CH	C559	87-010-315-080		C-CAP,S 27P-50 CH
C216	87-010-400-080		CAP, ELECT 0.47-50V	C560	87-010-263-080		CAP, ELECT 100-10V
C217	87-010-196-080		CHIP CAPACITOR,0.1-25	C561	87-010-196-080		CHIP CAPACITOR,0.1-25
CN201	87-099-720-010		CONN,30P TYK-B(P)	C562	87-010-196-080		CHIP CAPACITOR,0.1-25
CN202	87-A60-404-010		CONN,3P TKX-P03P-F1	C563	87-012-156-080		C-CAP,S 220P-50 CH
CN203	8A-CLA-621-010		CONN ASSY,9P MOTOR	C564	87-010-197-080		CAP, CHIP 0.01 DM
L206	87-003-098-080		COIL,2.2UH	C565	87-010-263-080		CAP, ELECT 100-10V
LCD201	8Z-CL8-665-110		LCD,ZCL-8	C566	87-010-196-080		CHIP CAPACITOR,0.1-25
S200	87-A90-095-080		SW,TACT EVQ11G04M	C568	87-010-197-080		CAP, CHIP 0.01 DM
S201	87-A90-095-080		SW,TACT EVQ11G04M	C570	87-010-197-080		CAP, CHIP 0.01 DM
S202	87-A90-095-080		SW,TACT EVQ11G04M	C571	87-010-248-080		CAP, ELECT 220-10V
S203	87-A90-095-080		SW,TACT EVQ11G04M	C572	87-010-196-080		CHIP CAPACITOR,0.1-25
S204	87-A90-095-080		SW,TACT EVQ11G04M	C573	87-010-197-080		CAP, CHIP 0.01 DM
S205	87-A90-095-080		SW,TACT EVQ11G04M	C574	87-010-197-080		CAP, CHIP 0.01 DM
S206	87-A90-095-080		SW,TACT EVQ11G04M	C578	87-010-197-080		CAP, CHIP 0.01 DM
S207	87-A90-095-080		SW,TACT EVQ11G04M	C579	87-010-263-080		CAP, ELECT 100-10V
S208	87-A90-095-080		SW,TACT EVQ11G04M	C582	87-010-197-080		CAP, CHIP 0.01 DM
S209	87-A90-095-080		SW,TACT EVQ11G04M	C583	87-010-405-080		CAP, ELECT 10-50V
S214	87-A90-095-080		SW,TACT EVQ11G04M	C584	87-010-170-080		S CHIP SL 220P(K)
S215	87-A90-095-080		SW,TACT EVQ11G04M	C586	87-010-170-080		S CHIP SL 220P(K)
S216	87-A90-095-080		SW,TACT EVQ11G04M	C587	87-010-166-080		C-CAP,S 100P-50 SL
S217	87-A90-095-080		SW,TACT EVQ11G04M	C589	87-010-166-080		C-CAP,S 100P-50 SL
S218	87-A90-095-080		SW,TACT EVQ11G04M	C590	87-010-166-080		C-CAP,S 100P-50 SL
S219	87-A90-095-080		SW,TACT EVQ11G04M	C591	87-010-166-080		C-CAP,S 100P-50 SL
S220	87-A90-095-080		SW,TACT EVQ11G04M	C592	87-010-166-080		C-CAP,S 100P-50 SL
X201	87-030-364-010		VIB,XTAL 32.768K CT	C593	87-010-197-080		CAP, CHIP 0.01 DM
X202	87-A70-185-080		VIB,CER 5.76MHZ TF21	C594	87-010-263-080		CAP, ELECT 100-10V
				C596	87-010-404-080		CAP, ELECT 4.7-50V
				C597	87-010-197-080		CAP, CHIP 0.01 DM
CD C.B							
C500	87-016-459-040		CAP,E 470-10 SME	C598	87-010-197-080		CAP, CHIP 0.01 DM
C502	87-016-459-040		CAP,E 470-10 SME	C601	87-010-197-080		CAP, CHIP 0.01 DM
C503	87-016-459-040		CAP,E 470-10 SME	CN501	87-009-345-010		CONN,2P PH H
C505	87-010-196-080		CHIP CAPACITOR,0.1-25	CN510	87-009-034-010		CONN,6P PH V
C507	87-010-196-080		CHIP CAPACITOR,0.1-25	CN520	87-A60-248-010		CONN,16P H CFF1416
C510	87-010-197-080		CAP, CHIP 0.01 DM	L501	87-005-647-080		COIL,10UH K LF5S
C513	87-010-196-080		CHIP CAPACITOR,0.1-25	L502	87-005-659-080		COIL,100UH K LF5.0S
C514	87-010-196-080		CHIP CAPACITOR,0.1-25	R503	87-029-019-010		RES, FUSEIBLE 1/2W-2.2
C515	87-012-157-080		C-CAP,S 330P-50 CH	SFR501	87-A90-787-080		SFR,100K H HOKU
C516	87-010-545-080		CAP, ELECT 0.22-50V	X501	87-A70-046-010		VIB,XTAL 16.934MHZ
C522	88-700-860-810		CAP, MYLAR 0.068	LED C.B			
C525	87-010-176-080		C-CAP,S 680P-50 SL				
C528	87-012-156-080		C-CAP,S 220P-50 CH				
C529	87-010-545-080		CAP, ELECT 0.22-50V				
C530	87-012-140-080		CAP 470P	D941	87-A40-365-080		LED,L-1154 SGD
				D942	87-A40-365-080		LED,L-1154 SGD

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
D943	87-A40-365-080	LED,L-1154	SGD
D944	87-A40-365-080	LED,L-1154	SGD
D945	87-A40-365-080	LED,L-1154	SGD
D946	87-A40-365-080	LED,L-1154	SGD
D947	87-A40-365-080	LED,L-1154	SGD
D948	87-A40-365-080	LED,L-1154	SGD
D949	87-A40-365-080	LED,L-1154	SGD
AC C.B			
C181	87-010-197-080	CAP, CHIP	0.01 DM<KS,EZ
C182	87-010-197-080	CAP, CHIP	0.01 DM<KS,EZ
CNA101	8A-CLA-630-010	CONN ASSY,2P	PT
△SW1	87-A90-178-010	SW SL1-1-2	<HAS>
△T1	87-369-312-010	TERMINAL	1P,MSC

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
MOTOR C.B			
M2	9X-262-576-910	MOTOR GEAR ASSY	
PIN3	91-564-722-110	CONNECTOR 6P	
SW1	91-572-085-120	LEAF SW	
DECK C.B			
CN1	87-009-352-010	CONN,9P PH H	
SFR1	87-024-581-010	SFR,3.3K DIA6V K0A	
SOL2	82-ZM1-618-410	SOL ASSY,27K	
SW2	87-A90-248-010	SW,MICRO ESE11SH2CXQ	
SW3	87-A90-248-010	SW,MICRO ESE11SH2CXQ	
SW5	87-A90-248-010	SW,MICRO ESE11SH2CXQ	
SW6	87-A90-249-010	SW,MICRO ESE11SH2CXQ	

- Regarding connectors, they are not stocked as they are not the initial order items.

The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち



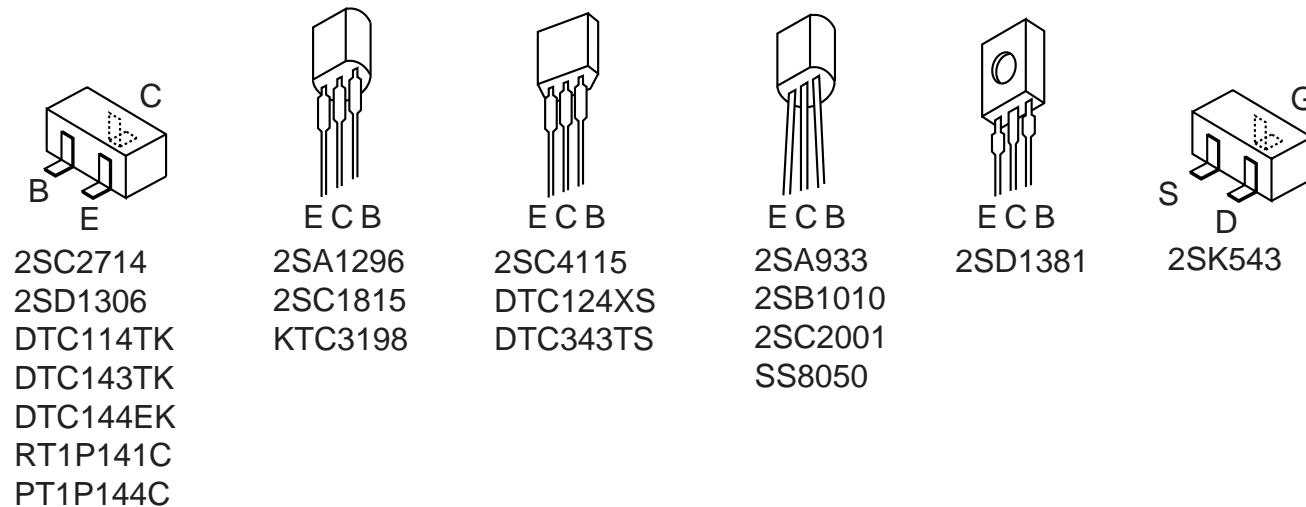
A 抵抗部品コード Resistor Code

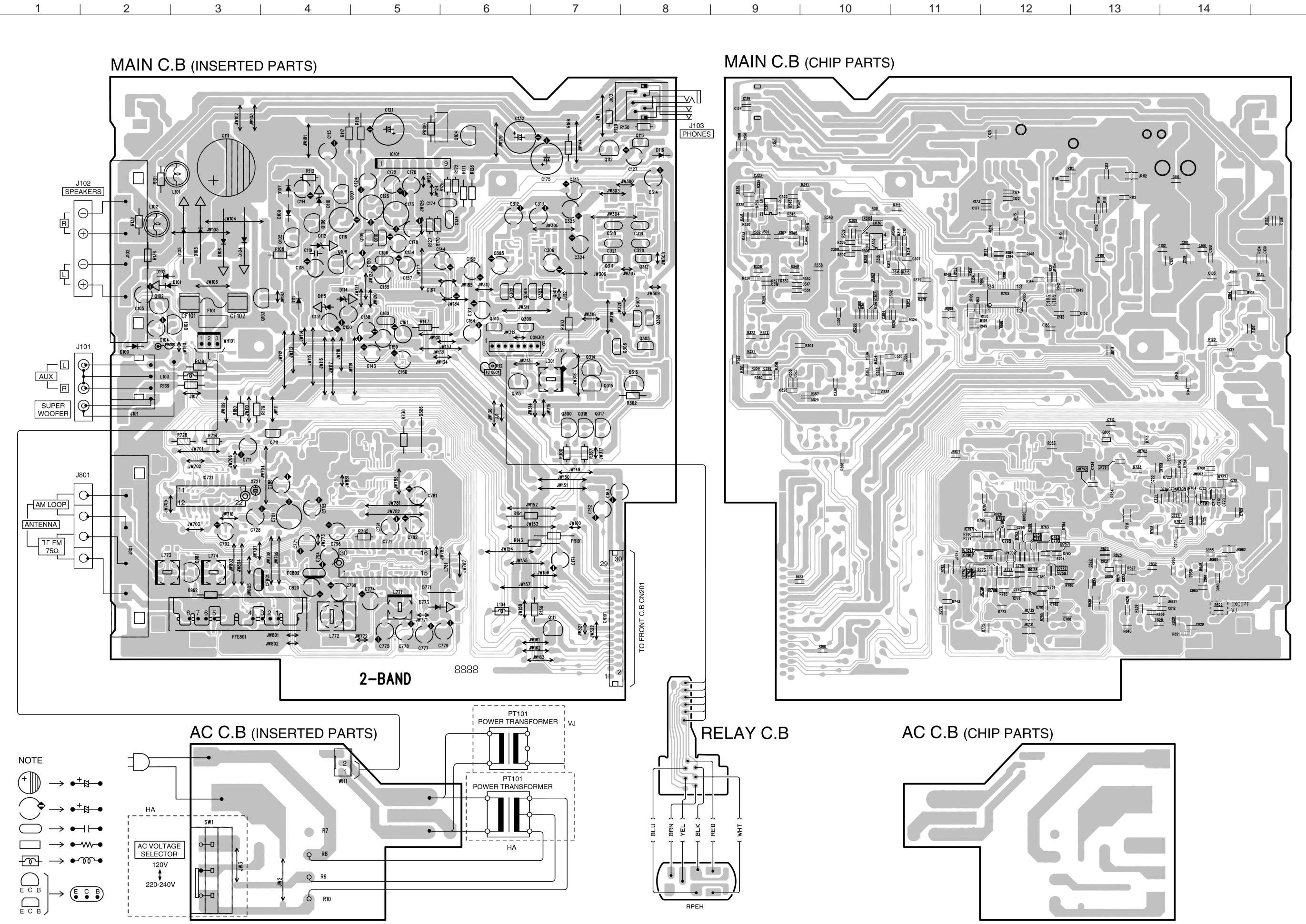
— 衍表示
Figure
— 抵抗值
Value of resistor

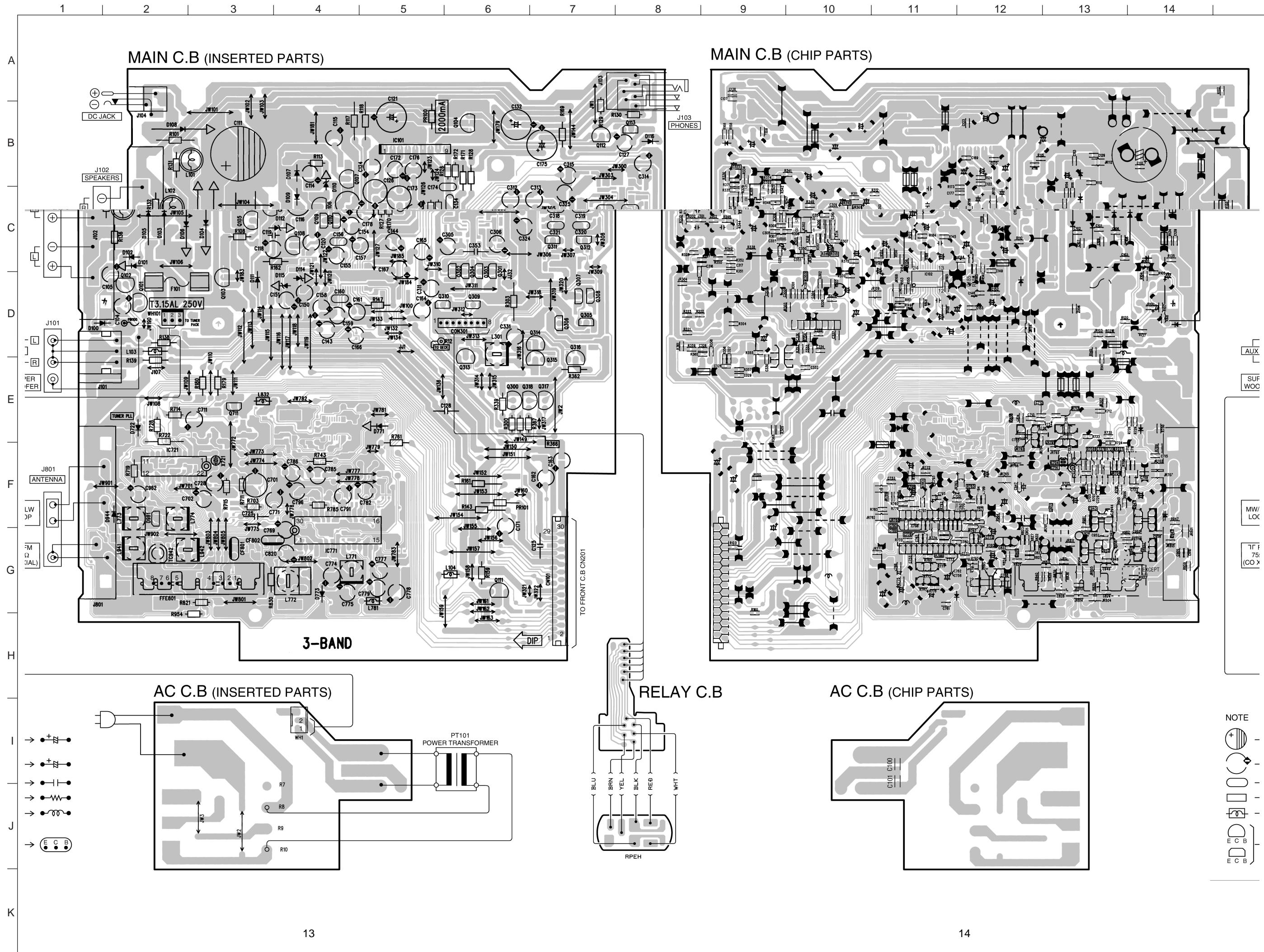
チップ抵抗 Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)			抵抗コード Resistor Code : A	
				外形／Form	L	W		
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

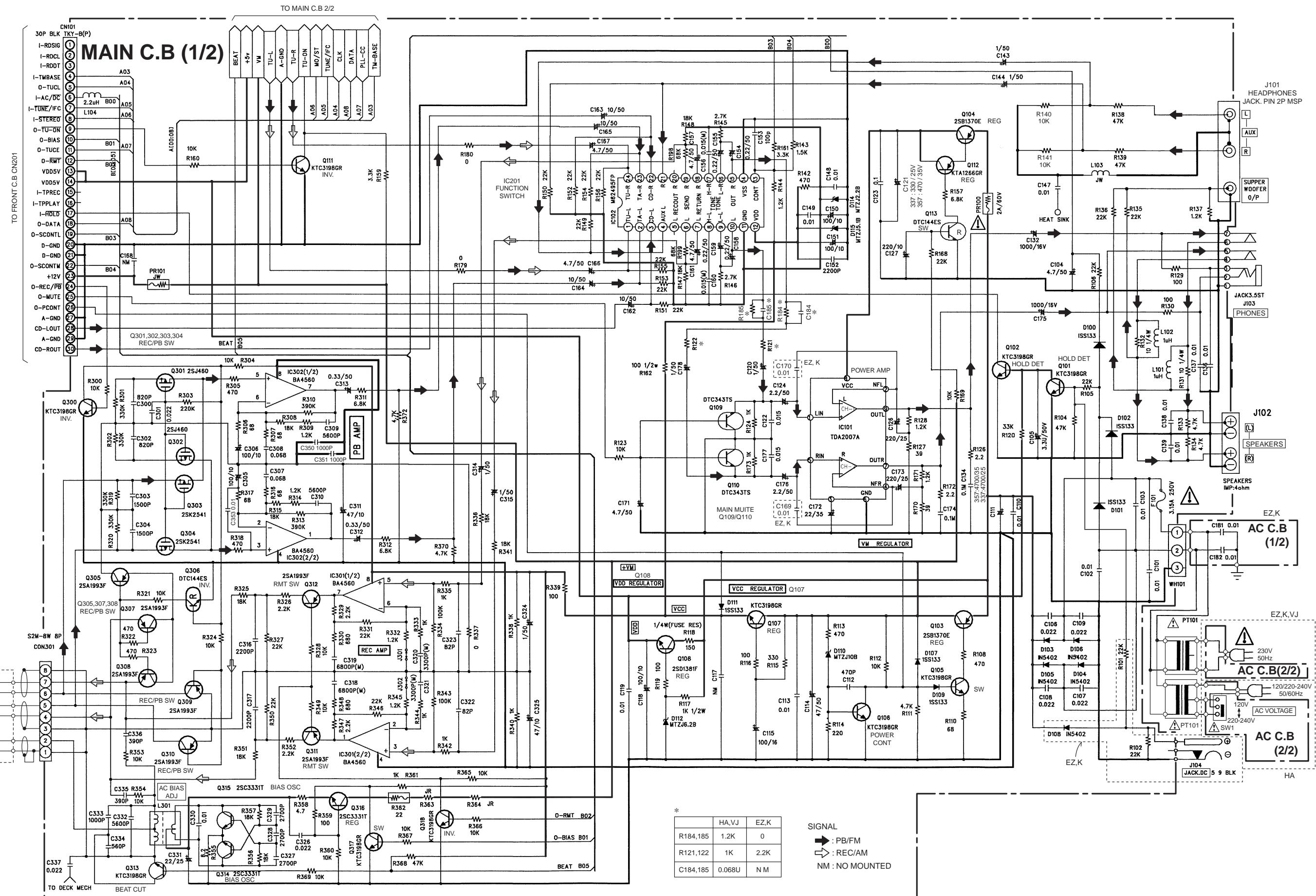
TRANSISTOR ILLUSTRATION





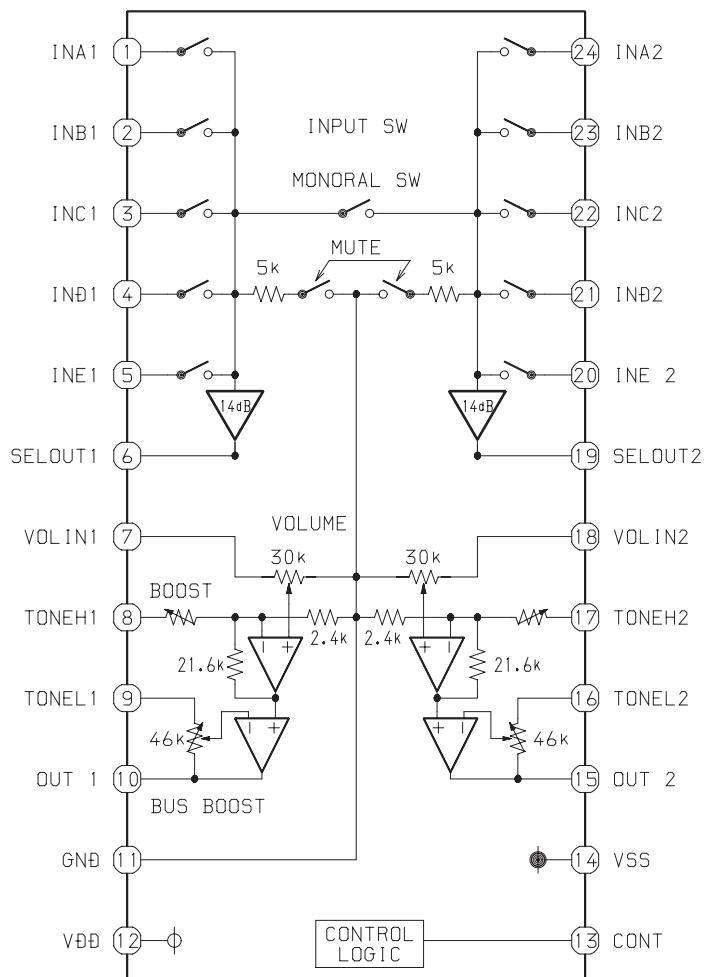


SCHEMATIC DIAGRAM-1 (MAIN 1/2)

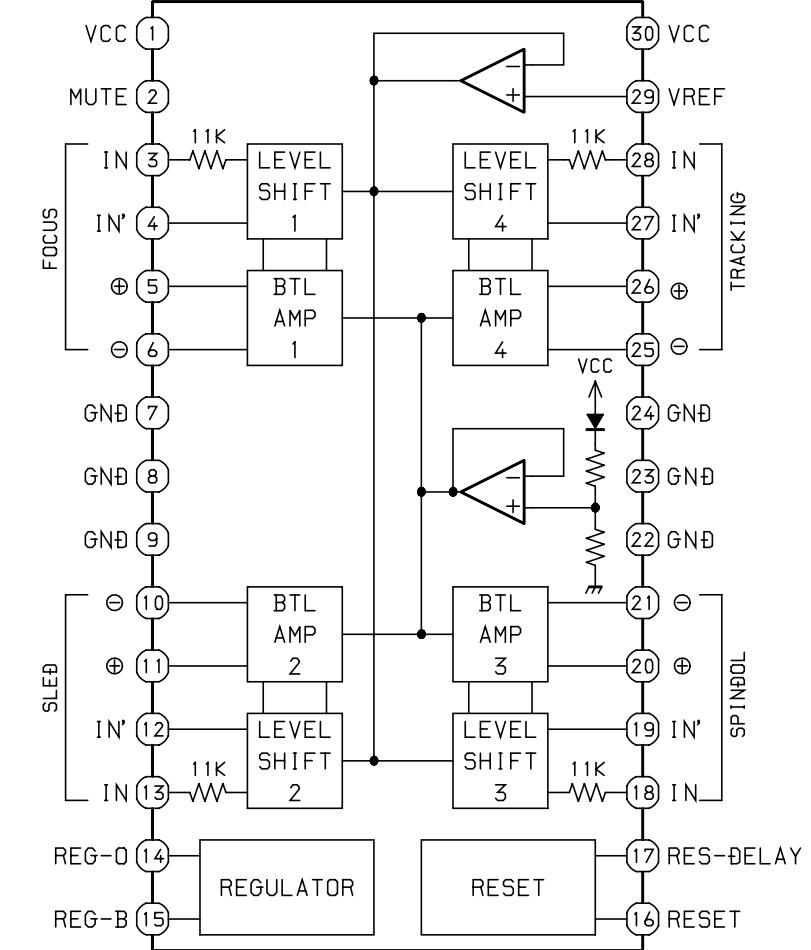


IC BLOCK DIAGRAM

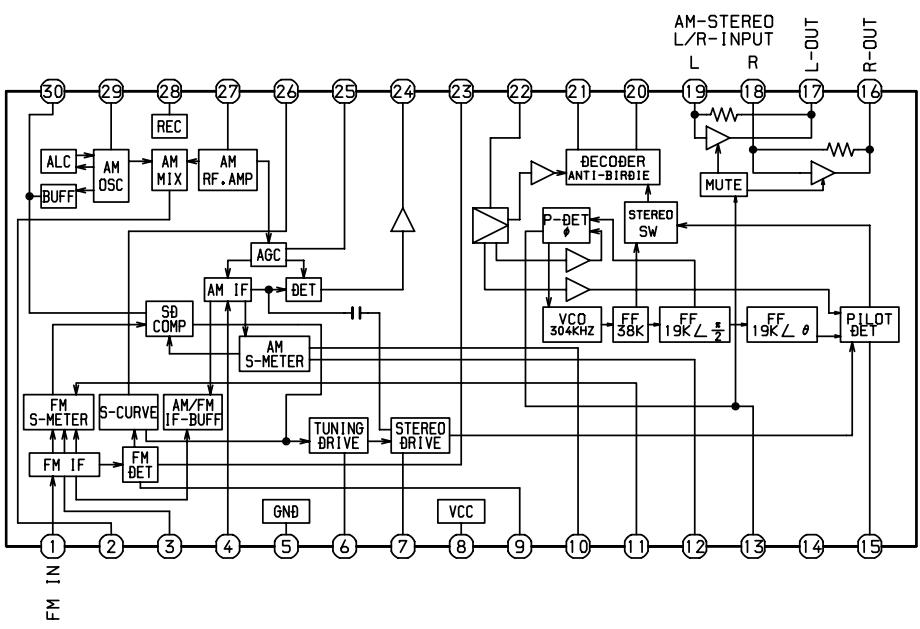
IC, M62495Afp



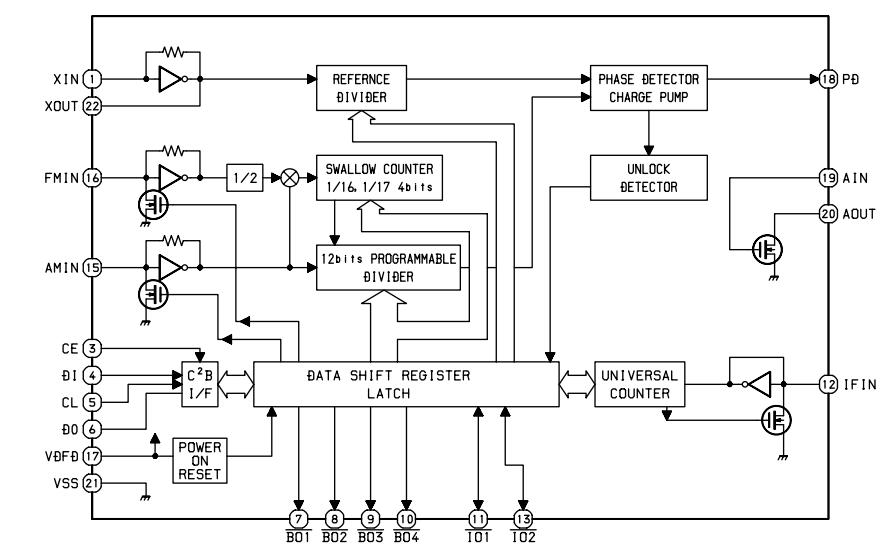
IC, LA6541D



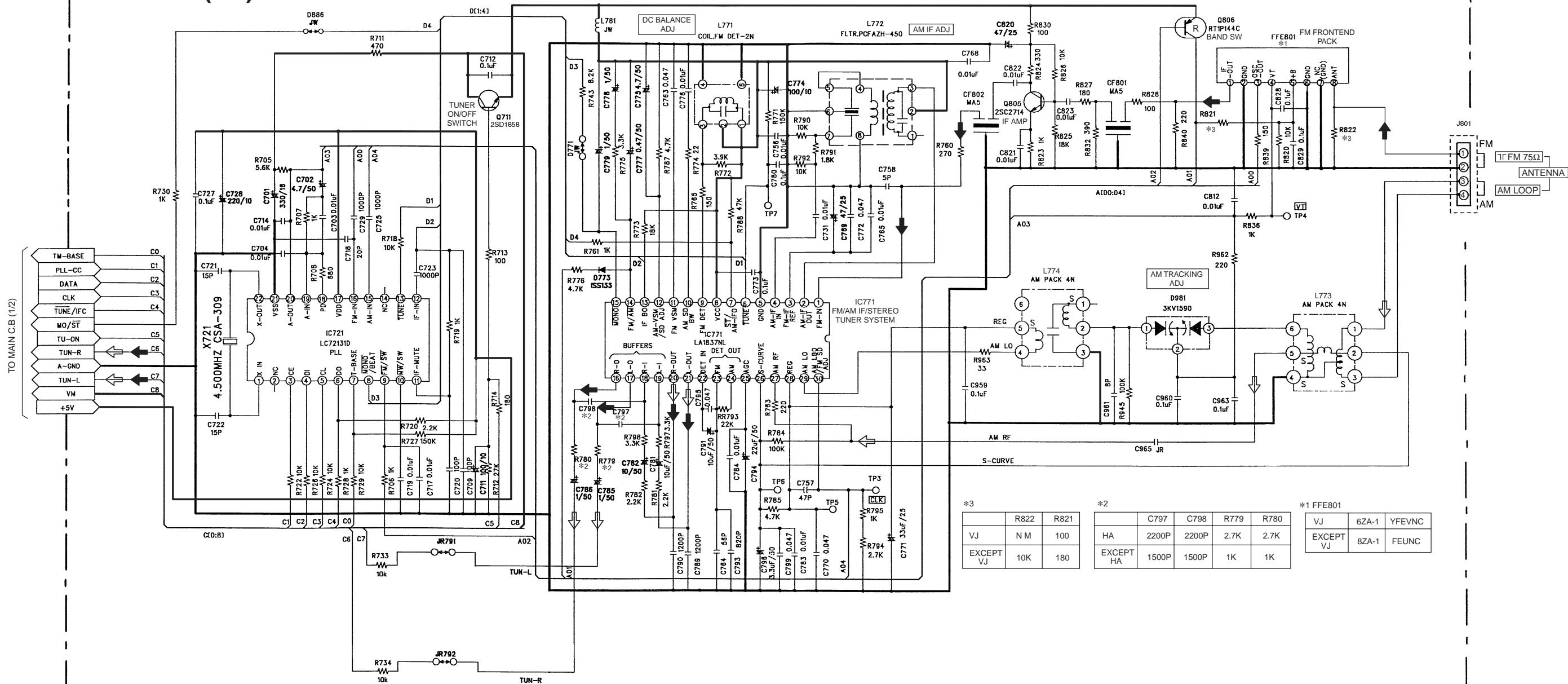
IC, LA1837NL



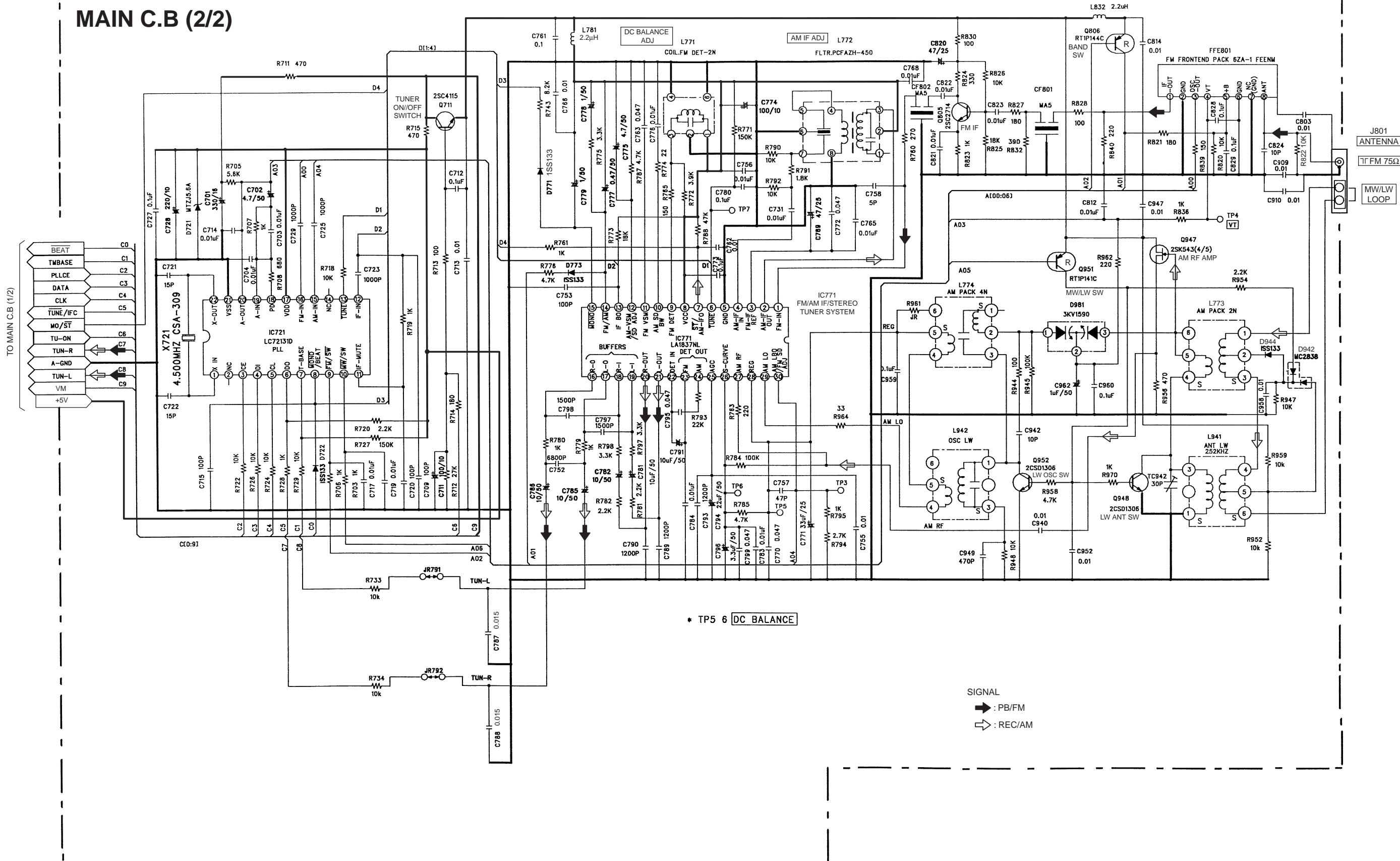
IC, LC72131D



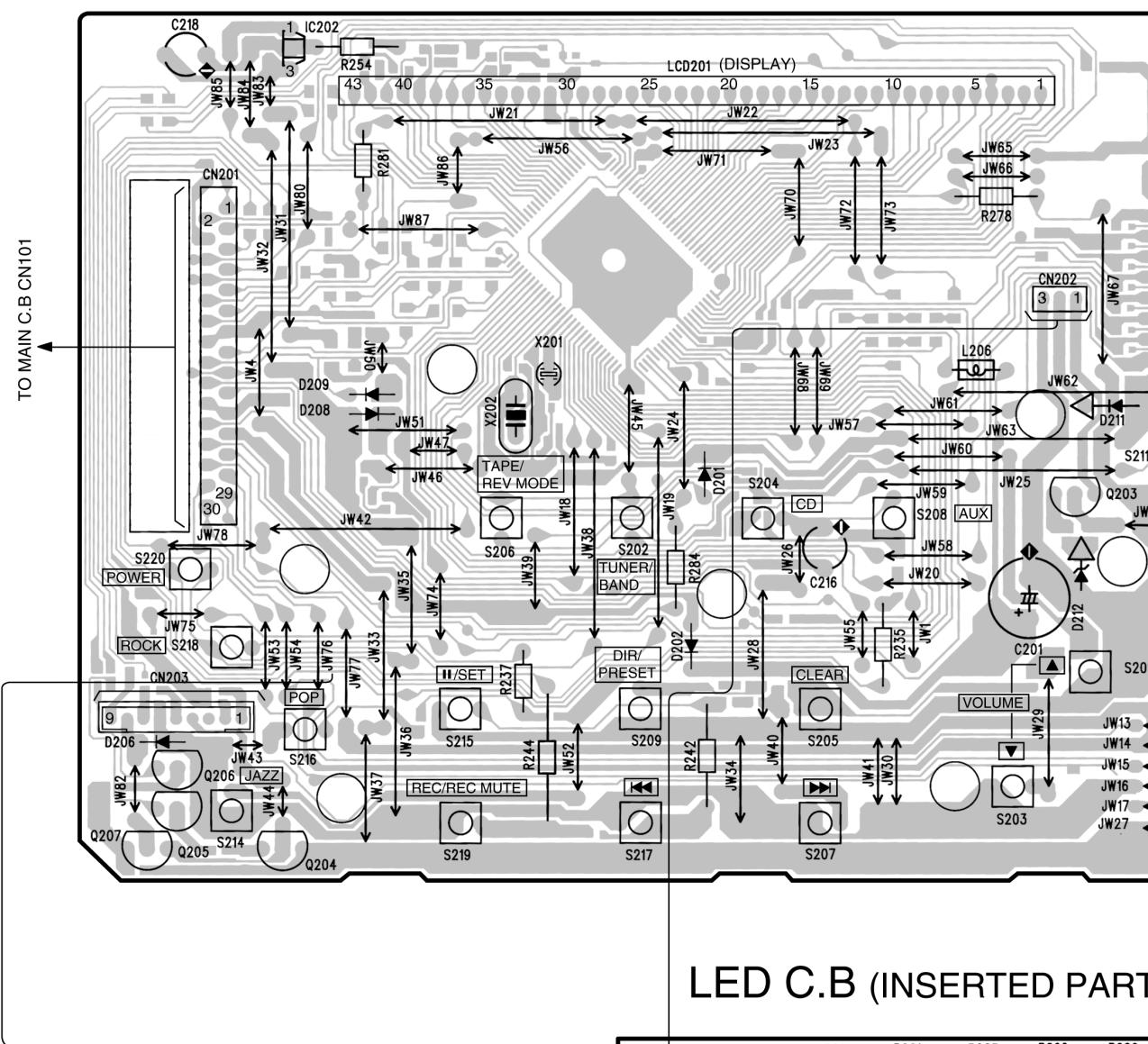
MAIN C.B (2/2)



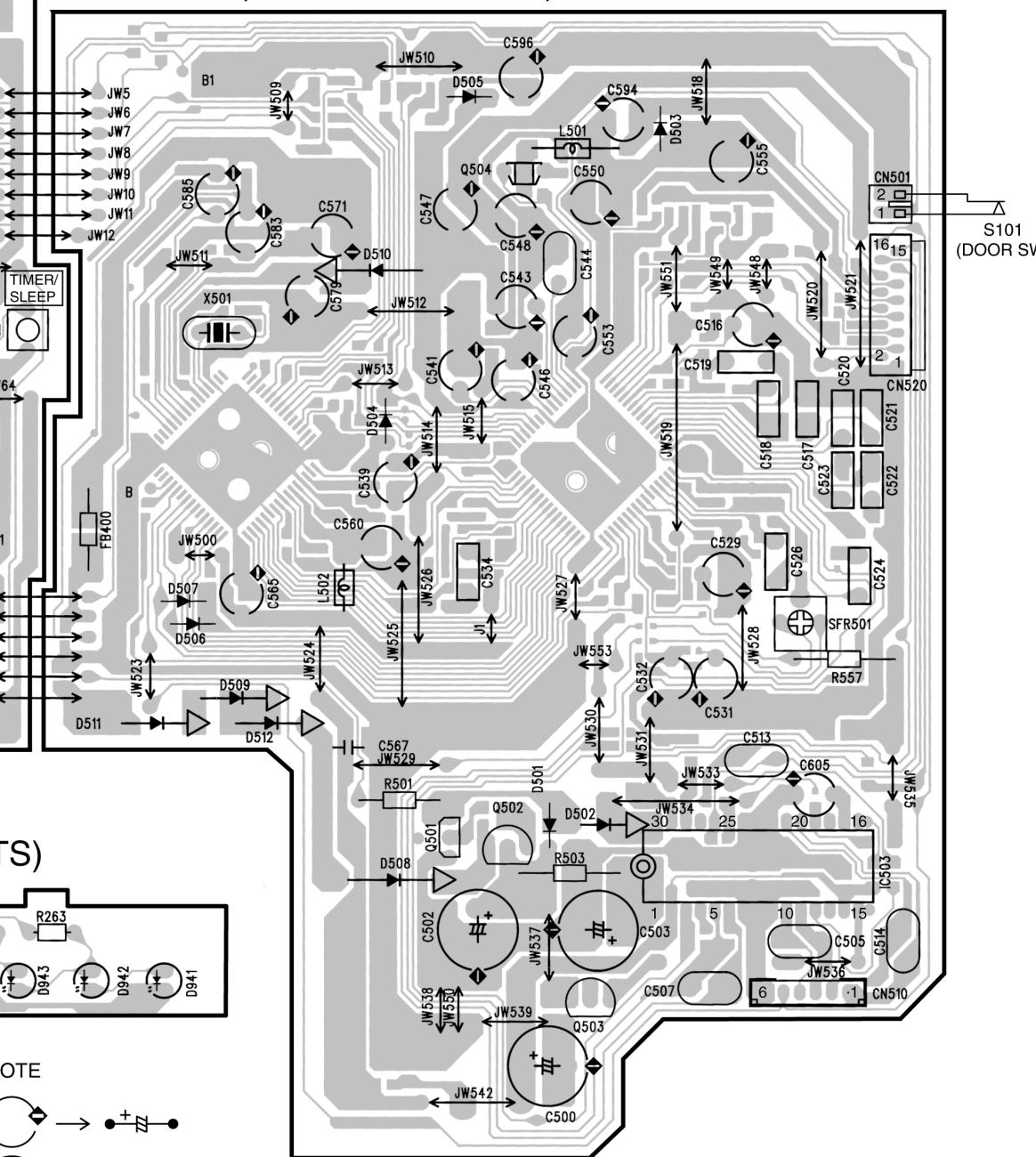
MAIN C.B (2/2)



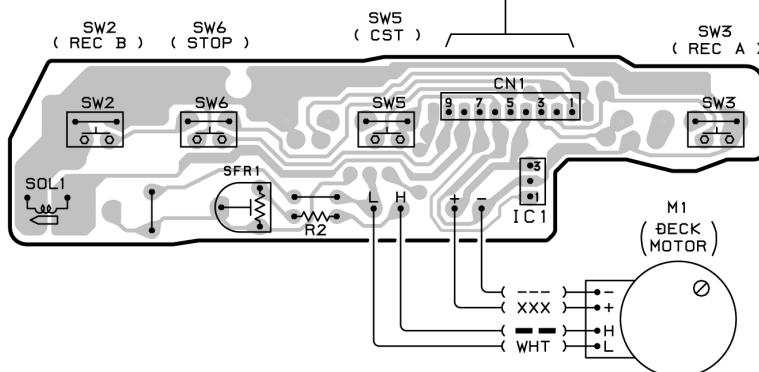
FRONT C.B (INSERTED PARTS)



CD C.B (INSERTED PARTS)



DECK C.B

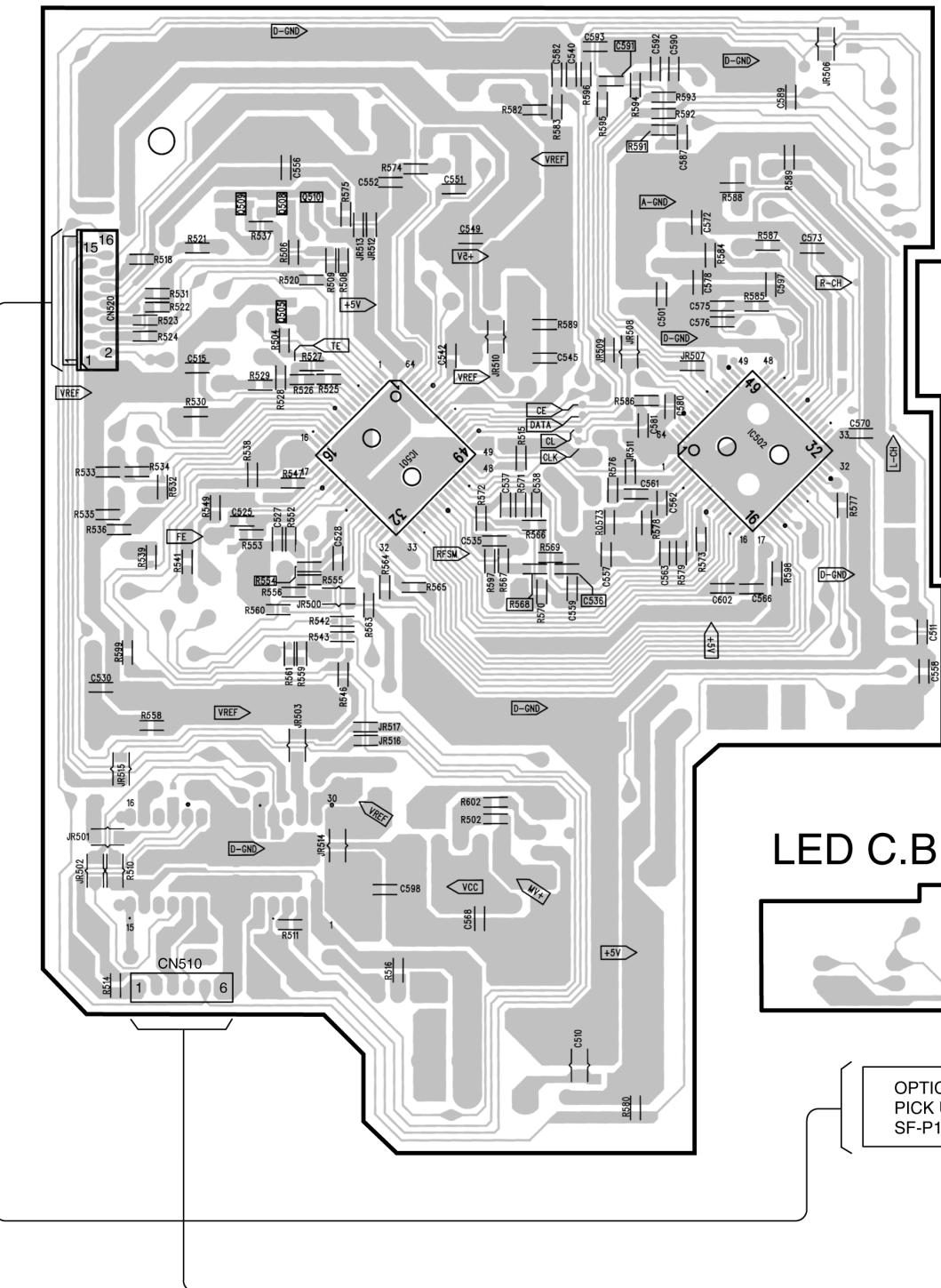


NOTE

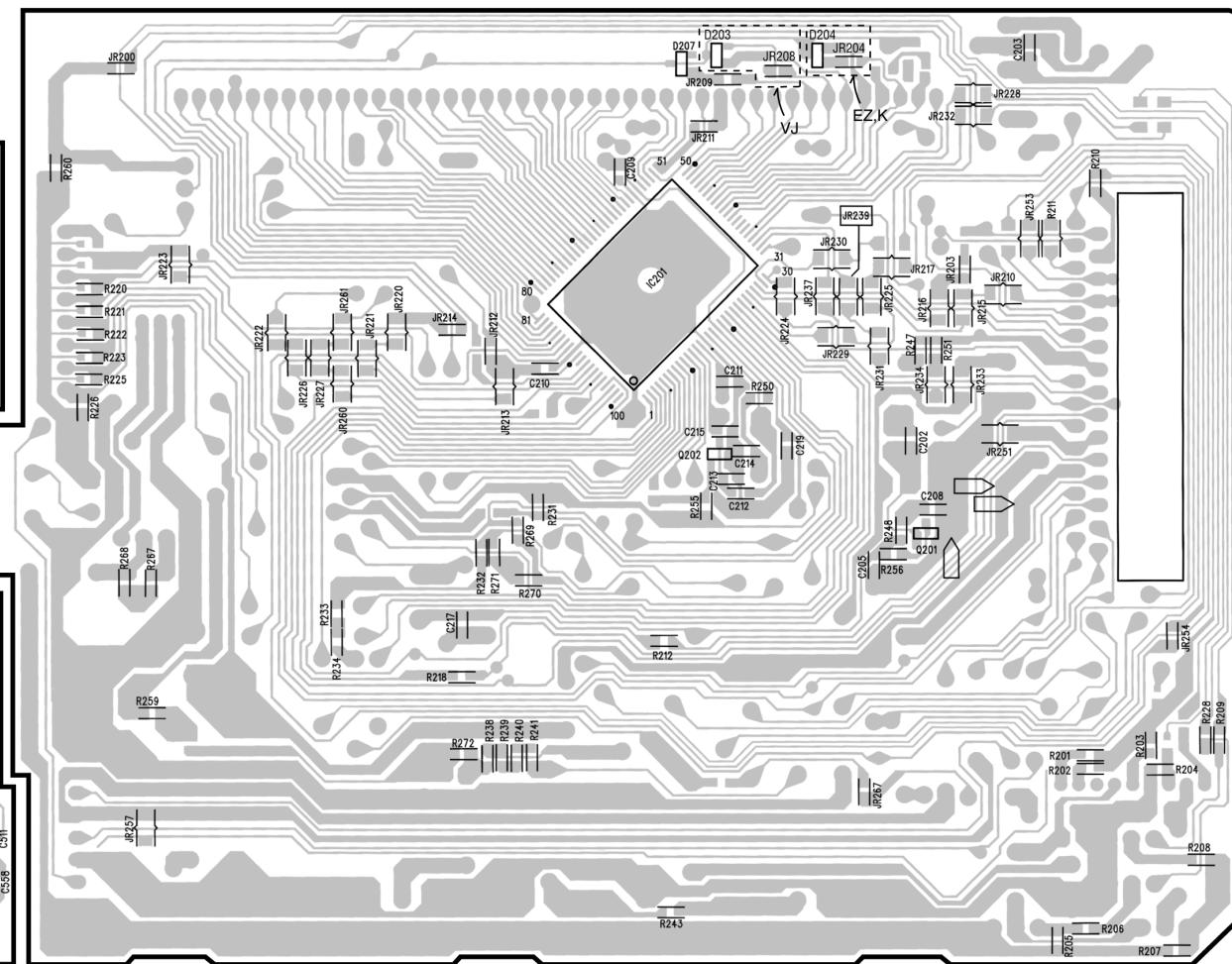
The diagram illustrates the following correspondences:

- A note head with a vertical stem and a small circle at the top (representing a note with a sharp sign) is shown with an arrow pointing to a note head with a vertical stem and a small circle at the top, followed by a '+' sign and a vertical bar with a sharp sign.
- A note head with a vertical stem and a small circle at the top (representing a note with a natural sign) is shown with an arrow pointing to a note head with a vertical stem and a small circle at the top, followed by a vertical bar with a natural sign.
- A note head with a vertical stem and a small circle at the top (representing a note with a flat sign) is shown with an arrow pointing to a note head with a vertical stem and a small circle at the top, followed by a vertical bar with a flat sign.
- A note head with a horizontal stem and a small circle at the top (representing a note with a double sharp sign) is shown with an arrow pointing to a note head with a horizontal stem and a small circle at the top, followed by a vertical bar with a double sharp sign.
- A note head with a horizontal stem and a small circle at the top (representing a note with a double flat sign) is shown with an arrow pointing to a note head with a horizontal stem and a small circle at the top, followed by a vertical bar with a double flat sign.
- A note head with a vertical stem and a small circle at the bottom (representing a note with a natural sign) is shown with an arrow pointing to a note head with a vertical stem and a small circle at the bottom, followed by a vertical bar with a natural sign.
- A note head with a vertical stem and a small circle at the bottom (representing a note with a flat sign) is shown with an arrow pointing to a note head with a vertical stem and a small circle at the bottom, followed by a vertical bar with a flat sign.
- A note head with a vertical stem and a small circle at the bottom (representing a note with a sharp sign) is shown with an arrow pointing to a note head with a vertical stem and a small circle at the bottom, followed by a vertical bar with a sharp sign.
- A note head with a horizontal stem and a small circle at the bottom (representing a note with a double flat sign) is shown with an arrow pointing to a note head with a horizontal stem and a small circle at the bottom, followed by a vertical bar with a double flat sign.
- A note head with a horizontal stem and a small circle at the bottom (representing a note with a double sharp sign) is shown with an arrow pointing to a note head with a horizontal stem and a small circle at the bottom, followed by a vertical bar with a double sharp sign.

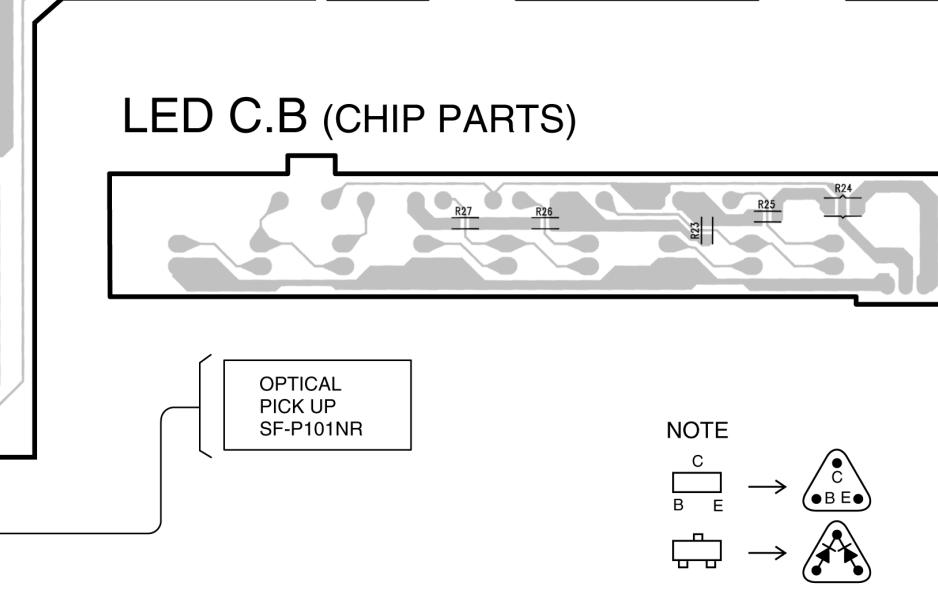
CD C.B (CHIP PARTS)



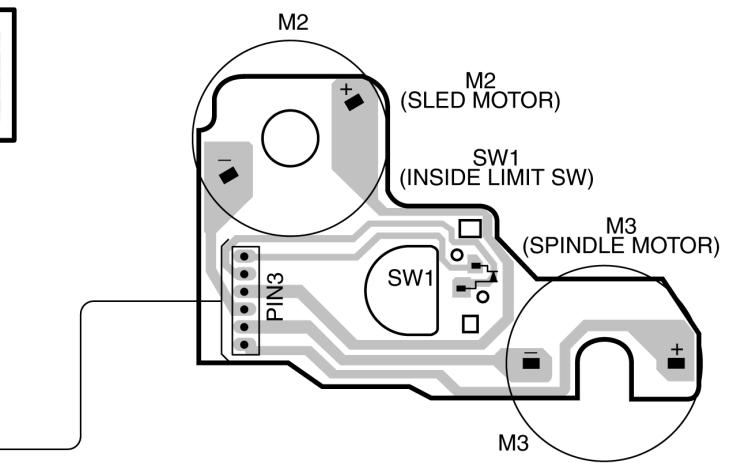
FRONT C.B (CHIP PARTS)



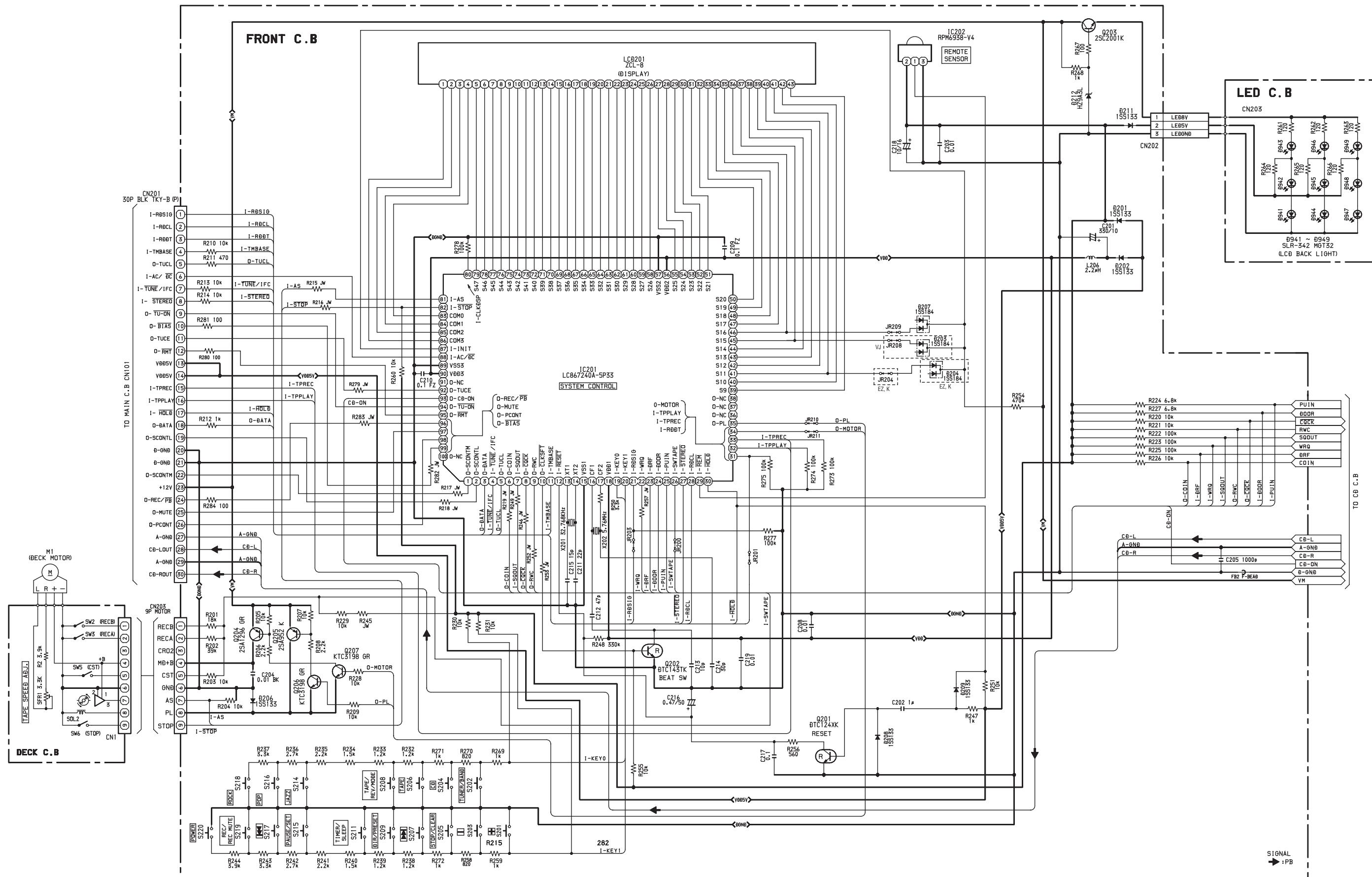
LED C.B (CHIP PARTS)



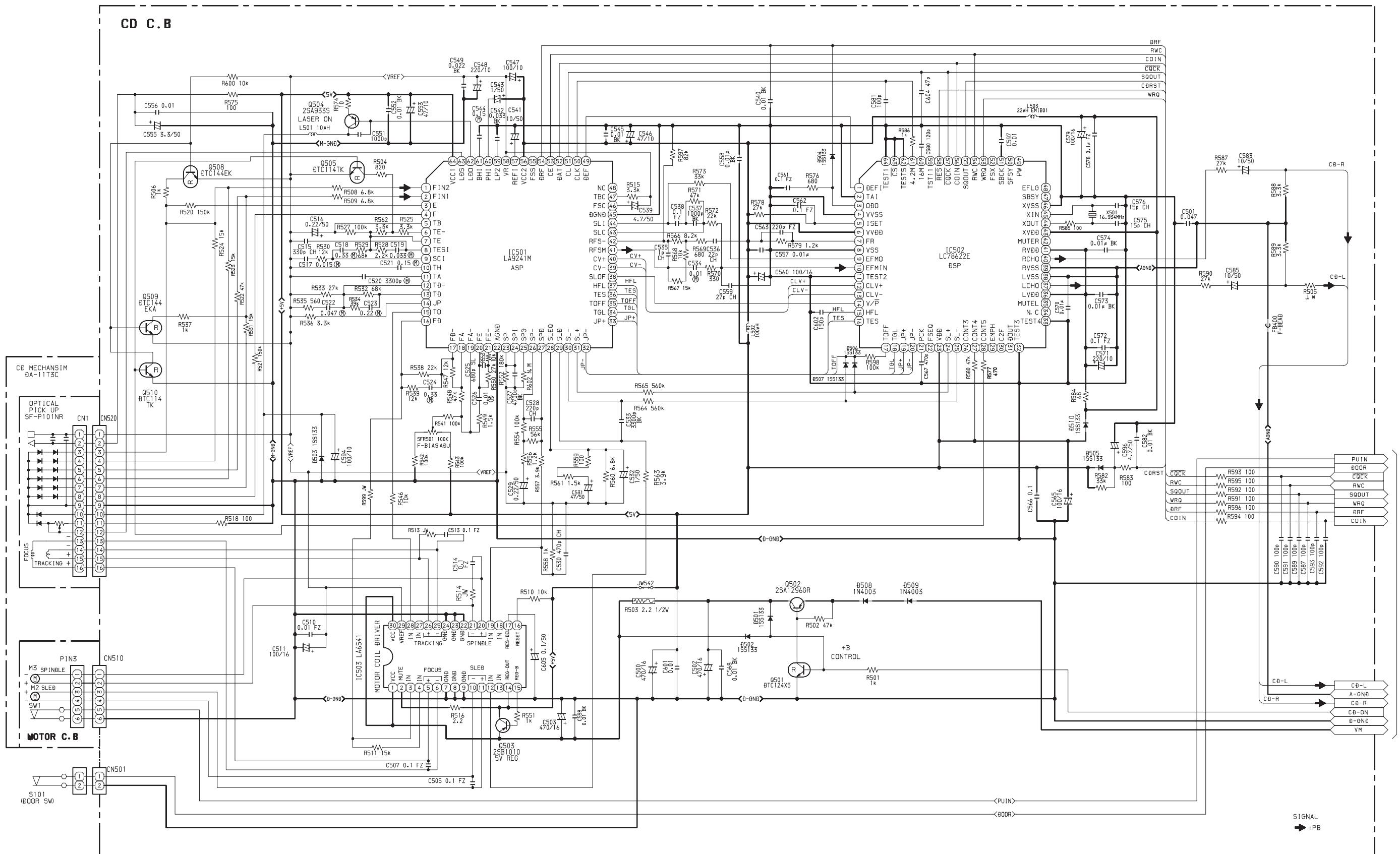
MOTOR C.B



SCHEMATIC DIAGRAM-4 (FRONT)



SCHEMATIC DIAGRAM-5 (CD)



VOLTAGE CHART

IC101 TDA2007A (V)

PIN	1	2	3	4	5	6	7	8	9
TU	1.4	0.7	10	0.74	1.4	GN	8.7	18.2	8.8
CD	1.4	0.7	10	0.72	1.4	GN	8.7	18.2	8.8

IC102 M62495AFP (V)

PIN	1	2	3	4	5	6	7	8	9	10	11	12
TU	2.4	2.4	2.4	2.39	NC	2.4	2.4	2.39	2.4	2.4	2.4	5.34
TAPE	2.4	2.4	2.4	2.38	NC	2.4	2.4	2.38	2.4	2.4	2.4	5.33
CD	2.4	2.4	2.4	2.35	NC	2.4	2.4	2.35	2.4	2.4	2.4	5.29
PIN	13	14	15	16	17	18	19	20	21	22	23	24
TU	2.5	GND	2.4	2.42	2.4	2.4	2.4	NC	2.4	2.4	2.4	2.4
TAPE	2.5	GND	2.4	2.4	2.4	2.4	2.4	NC	2.4	2.4	2.4	2.4
CD	2.5	GND	2.4	2.4	2.4	2.4	2.4	NC	2.4	2.4	2.4	2.4

IC301 BA4560 (V)

PIN	1	2	3	4	5	6	7	8
TAPE	4.2	4.5	4.2	GND	4.2	4.2	4.2	8.69
REC	4.2	4.2	4.1	GND	4.1	4.2	4.2	8.68

IC302 BA4560 (V)

PIN	1	2	3	4	5	6	7	8
TAPE	4.2	4.5	4.2	GND	4.2	4.2	4.2	8.69
REC	4.2	4.2	4.1	GND	4.1	4.2	4.2	8.68

IC721 LC72131D PLL (V)

PIN	1	2	3	4	5	6	7	8	9	10	11
FM	2.7	0	2.5	0.96	1	5.5	2	0	0.8	0	0
MW	2.7	0	0	0	0	5.5	2	0	9.1	0	0
LW	2.7	0	0	0	0	5.5	2	0	9.3	9.4	0
PIN	12	13	14	15	16	17	18	19	20	21	22
FM	0	9.1	NC	7.7	2.1	0	0	0	0	0	2.7
MW	0	9.2	NC	2.7	0	5.5	0.9	0.91	4.3	0	2.7
LW	0	9.3	NC	2.71	0	5.5	0.9	0.99	1.3	0	2.7

IC771 LA1837NL (V)

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
FM	3.6	9.1	3.6	3.56	GN	0	0	9.09	9.1	1.3	2.5	0	0.5	8	8
MW	3.6	9.3	3.5	3.54	GN	9.2	5.5	9.31	9.3	1.3	0	0	0.5	5	5.6
LW	3.6	9.4	3.6	3.54	GN	9.3	5.5	9.43	9.4	1.3	0	0.79	0.5	5.1	5.7
PIN	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
FM	4.3	4.3	4.3	4.29	3.4	3.4	2.8	3.54	0	0	3.6	3.6	3.6	3.6	2.2
MW	4.3	4.3	4.3	4.27	3.4	3.4	2.8	2.7	0.7	0.7	3.6	3.54	3.6	3.6	2
LW	4.3	4.3	4.3	4.28	3.4	3.4	2.8	2.58	0.9	0.8	3.6	3.54	3.6	3.6	2

FM FFE801 (V)

PIN	1	2	3	4	5	6	7	8
FM	0	GND	0	2.47	7.1	GN	0	0
MW	0	GND	0	4.34	0	GN	0	0

IC501 LA9241M CD (V)

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
dynamics	2.5	2.5	2.6	2.55	2.5	2.5	2.5	2.54	2.5	2.5	2.5	2.52	2.6	2.5	2.6
stafics	2.5	2.5	2.5	2.52	2.5	2.5	2.5	2.51	2.5	2.5	2.5	2.51	2.5	2.5	2.5
PIN	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
dynamics	2.6	2.5	2.5	2.54	2.6	2.5	GN	2.51	2.5	2.5	2.5	2.6	2.5	2.6	2.4
stafics	2.5	2.5	0	2.49	2.5	2.5	GN	0	0	2.5	2.5	2.51	2.5	2.5	2.3
PIN	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
dynamics	2.4	0	0	4.99	0	1.2	0	0	0	0	2.3	2.43	2.6	2.5	GN
stafics	2.3	0	0	4.94	4.8	0	0	4.92	0	0	1.6	2.4	2.6	2.5	GN
PIN	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
dynamics	2.5	2.6	NC	0	2.4	4.7	4.8	0	4.9	NC	5	2.53	2.5	2.3	2.4
stafics	2.5	2.5	NC	0	0	0	4.8	0	0	NC	0	2.51	2.5	1	1
PIN	61	62	63	64											
dynamics	2.2	3.6	0	0											
stafics	2.2	4.3	0	0											

IC502 LC78622E CD (V)

| PIN | 1 | 2 | 3 |
<th
| --- | --- | --- | --- |

IC503 LA6541 CD (V)

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
dynamics	9.9	5	2.5	2.52	4.6	4.5	GN	GN	GN	4.5	4.6	2.52	NC	5	9.3
stafics	10	5	2.5	2.51	4.7	4.7	GN	GN	GN	4.7	4.7	2.51	NC	5	9.5
PIN	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
dynamics	5	4.9	NC	2.53	4.9	4	GN	GN	GN	4.5	4.5	NC	2.5	2.5	9.8
stafics	4.9	4.8	NC	2.51	4.7	4.6	GN	GN	GN	4.7	4.7	NC	2.5	2.5	10

IC201 LA867240A-5P33 CPU (V)

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
TU	0	0	0	0	0	0	0.8	0	0	0	1.9	4.67	1.8	2.6	0
TAPE	0	0	0	0	0	0	0	0	0	2	1.9	4.6	1.6	2.7	0
CD	0	0	0	0	0	4.8	0	4.65	0	2	1.9	4.63	1.6	2.6	0
PIN	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
TU	2.2	2.3	4.8	4.91	4.9	2.4	0.8	0.96	4.9	0	4.9	0	0.6	4.9	5.3
TAPE	2.3	2.3	4.8	4.91	4.9	0	0.8	0.96	4.9	0.5	1.8	0	0	4.9	5.3
CD	2.2	2.3	4.8	4.88	4.9	0	0.8	0.91	4.9	1.9	2.4	0	0	4.9	5.3
PIN	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
TU	0.5	0	0	0	0	0	0	2.5	2.4	2.4	2.4	2.49	2.4	2.5	2.5
TAPE	0	0	0	4.73	0	0	0	2.46	2.5	2.4	2.4	2.46	2.4	2.4	2.4
CD	0	0	0	0	0	0	0	2.34	2.3	2.3	2.3	2.33	2.3	2.3	2.3
PIN	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
TU	2.4	2.5	2.5	2.49	2.5	2.5	2.5	2.5	2.5	2.4	4.8	0	2.4	2.4	2.4
TAPE	2.4	2.4	2.4	2.43	2.4	2.4	1.7	1.9	2.5	2.4	4.8	0	2.4	2.4	2.4
CD	2.3	2.3	2.3	2.32	2.4	2.5	2.3	2.33	2.3	2.3	4.8	0	2.3	2.3	2.3
PIN	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
TU	2.5	2.5	2.5	2.47	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.47	2.4	2.5	2.5
TAPE	2.5	2.4	2.4	2.43	2.4	2.4	2.5	2.42	2.4	2.4	2.4	2.43	2.4	2.5	2.5
CD	2.3	2.4	2.3	2.34	2.4	2.4	2.3	2.34	2.4	2.4	2.3	2.35	2.4	2.3	2.3
PIN	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
TU	2.5	2.5	2.5	2.48	0	0	4.9	2.48	2.5	2.5	2.5	2.94	5.3	0	4.8
TAPE	2.5	2.5	2.5	2.46	0	0	0	2.45	2.5	2.5	2.5	3.54	5.3	0	4.8
CD	2.4	2.4	2.4	2.36	0	0	4.8	2.4	2.4	2.4	2.4	2.05	5.3	0	4.8
PIN	91	92	93	94	95	96	97	98	99	100					
TU	0	0	0	0	0	0	0	0.98	4.8	0					
TAPE	0	0	0	4.75	0	0	0	0.99	4.7	0					
CD	0	0	4.7	4.72	0	0	0	1.12	4.7	0					

Q101	KTC3198GR			Q102	KTC3198GR			Q103	2SB1370			Q105	3198GR		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
dynamics	0.7	0	0	dynamics	0	0	5.3	dynamics	12	19	18	dynamics	0.7	0	18
stafics(v)	0.7	0	0	stafics(v)	0	0	5.3	stafics(v)	12	19	18	stafics(v)	0.6	0	18

Q106	KTC3198GR			Q107	KTC3198GR			Q108	2SD1381F			Q104	2SB1370E		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
dynamics	0.7	0	1	TAPE	12	11	12	TU (V)	6.2	5.6	16	dynamics	18	19	18
stafics(v)	0.7	0	9.1	CD (V)	12	12	11	CD (V)	6.2	5.6	16	stafics(v)	18	19	18

Q112	KTA1266GR			Q113	DTC144ES			Q109	DTC343TS			Q110	DTC343TS		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
dynamics	17	18	18	dynamics	7.1	GN	0	dynamics	0	0	0	dynamics	0	0	0
stafics(v)	17	18	18	stafics(v)	7.1	GN	0	stafics(v)	1.4	0	0	stafics(v)	1.4	0	0

Q111	2SC1815Y			Q300	KTC3198GR			Q301	2SJ460			Q302	2SJ460		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
TU(V)	0	0	10	PB(V)	0	0	7.2	PB(V)	7	4	4.2	PB(V)	7	4.2	4
CD(V)	0.7	0	0	REC(V)	0.7	0	0	REC(V)	0	4.1	4.1	REC(V)	0	4.1	4.1

Q303	2SK2541			Q304	2SK2541			Q305	2SJ460			Q306	DTC144ES		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
PB(V)	7	4.2	4.2	PB(V)	7	4.2	4.2	PB(V)	3.5	4.2	4.2	PB(V)	7.2	0	0
REC(V)	0	4.2	4.1	REC(V)	0	4.2	4.1	REC(V)	17	9.2	4.2	REC(V)	0	0	16

Q307	2SJ460			Q308	2S460			Q309	2SA1993			Q310	2SA1993F		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
PB(V)	3.6	4.2	4.2	PB(V)	3.6	4.2	4.2	PB(V)	7.2	4.2	4.2	PB(V)	7.2	4.2	4.2
REC(V)	17	4.5	9.2	REC(V)	17	4.5	9.2	REC(V)	4.2	3.6	4.2	REC(V)	4.2	3.6	4.2

Q311	2SA1993F			Q313	KTC1898GR			Q314	2SC3331T			Q315	2SC3331T		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
PB(V)	8.7	4.2	4.2	PB(V)	0.5	4.2	0	PB(V)	0	0	0	PB(V)	0	0	0
REC(V)	3.6	4.2	4.2	REC(V)	2.3	4.2	1.7	REC(V)	0.7	0.7	6.2	REC(V)	0.8	0.7	6.3

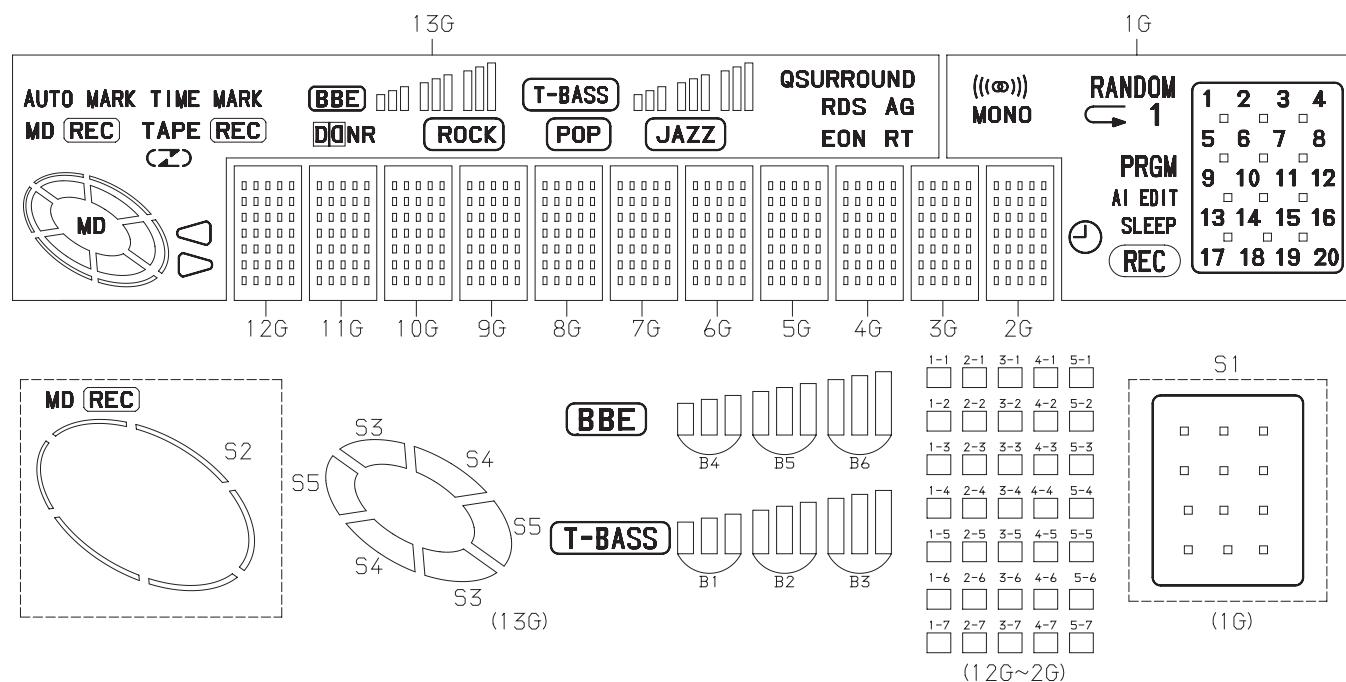
Q316	2SC3331T			Q317	KTC1898GR			Q318	KTC3198GR			Q204	2SA1296GR		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
PB(V)	0	0	11	PB(V)	0.7	0	0	PB(V)	0	0	8.7	PB(V)	11	12	12
REC(V)	7.4	6.6	8.5	REC(V)	0	0	7.5	REC(V)	0.7	0	0	REC(V)	11	12	12

Q205	2SA952K			Q206	KTC3198GR			Q207	KTC3198GR			Q201	DTC124XK		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
PB(V)	0	12	12	PB(V)	0	0	12	PB(V)	0.7	0	0	CD(V)	0	0	4.7
REC(V)	12	12	0	REC(V)	0	0	12	REC(V)	0.7	0	0	TU(V)	0	0	4.7

Q202	DTC143TK			Q203	2SC2001K			Q711	C4115			Q853	2SC3052		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
CD(V)	2	0	0	CD(V)	8.4	7.7	12	CD(V)	0	0	12				
TU(V)	0	0	0.5	TU(V)	8.4	7.7	12	TU(V)	9.8	9.1	12				

FL (13-ST-36GNAK) GRID ASSIGNMENT/ANODE CONNECTION

GRID ASSIGNMENT



K, EZ											
Q805 2SC2714			Q806 RTIP144C			Q951 RTIP141C			Q947 2SK543		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
FM(V)	5.2	4.5	7.2	FM(V)	0.8	9.1	9	FM(V)	9.1	9.1	0
AM(V)	5.4	4.2	7.3	AM(V)	0	9.3	0	AM(V)	0.8	9.3	9.3
								AM(V)	0	9.3	0.4

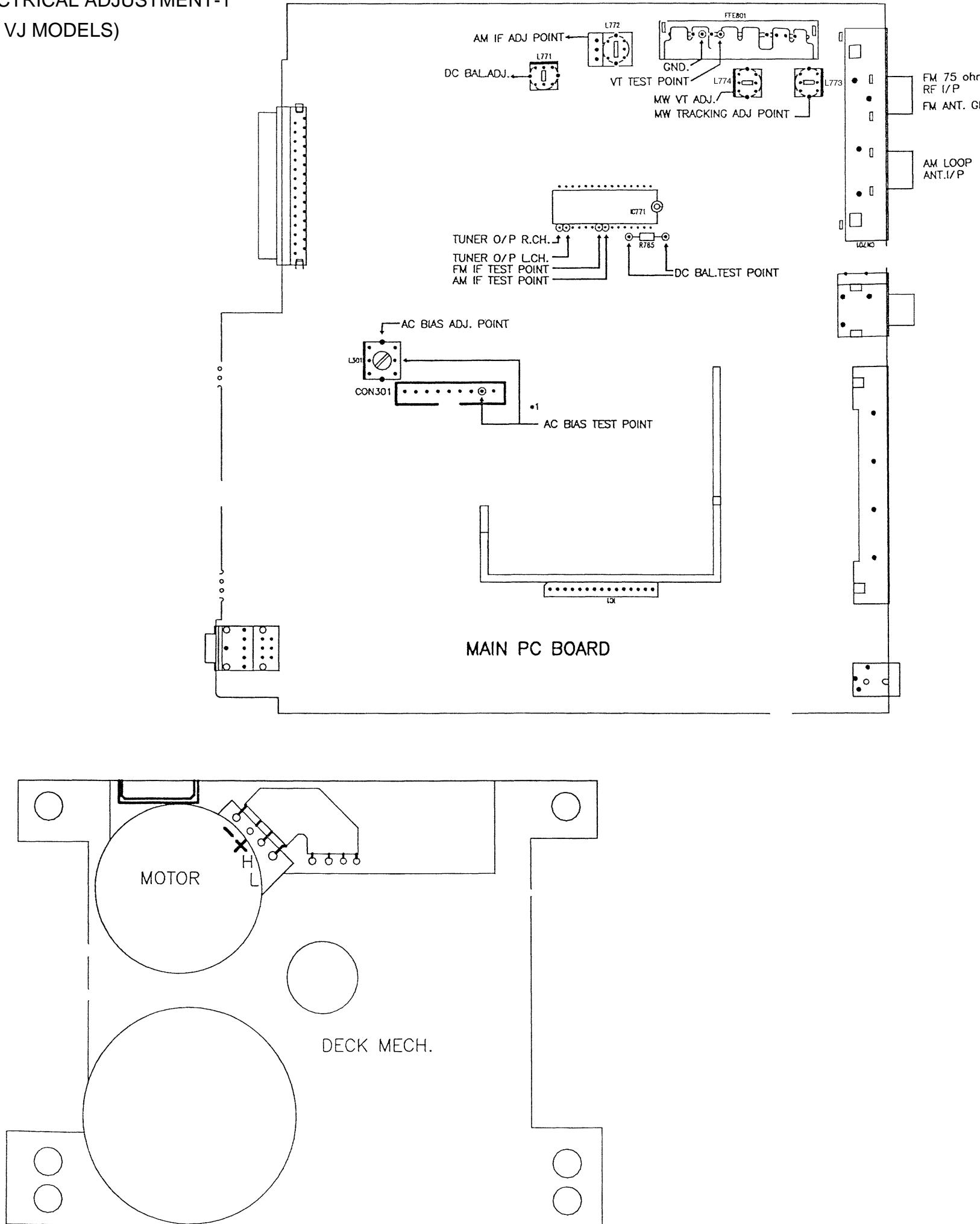
K, EZ											
Q952 2SD1306			Q948 2SD1306			Q501 DTC124XS			Q502 2SA1296GR		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
MW(V)	1.9	1.2	1.2	MW(V)	1.9	1.1	1.1	dynamics	4.5	0	0.2
LW(V)	0	1.1	1.1	LW(V)	0	1.1	1.1	stafics(v)	4.5	0	0.2
								stafics(v)	9.5	10	10

Q503 2SA1296GR			Q504 2SA933RS			Q505 DTC114TK			Q508 DTC144EK		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
dynamics	9.8	10	5	dynamics	4.2	4.8	1.6	dynamics	0.1	2.5	2.5
stafics(v)	9.7	10	5.2	stafics(v)	3.7	4.4	2.1	stafics(v)	0.1	2.5	2.5

Q509 DTC144EK			Q510 DTC114TK				
PIN	B	E	C	PIN	B	E	C
dynamics	4.3	2.5	2.5	dynamics	0.1	0	4.3
stafics(v)	4.4	2.5	2.5	stafics(v)	0.1	0	4.4

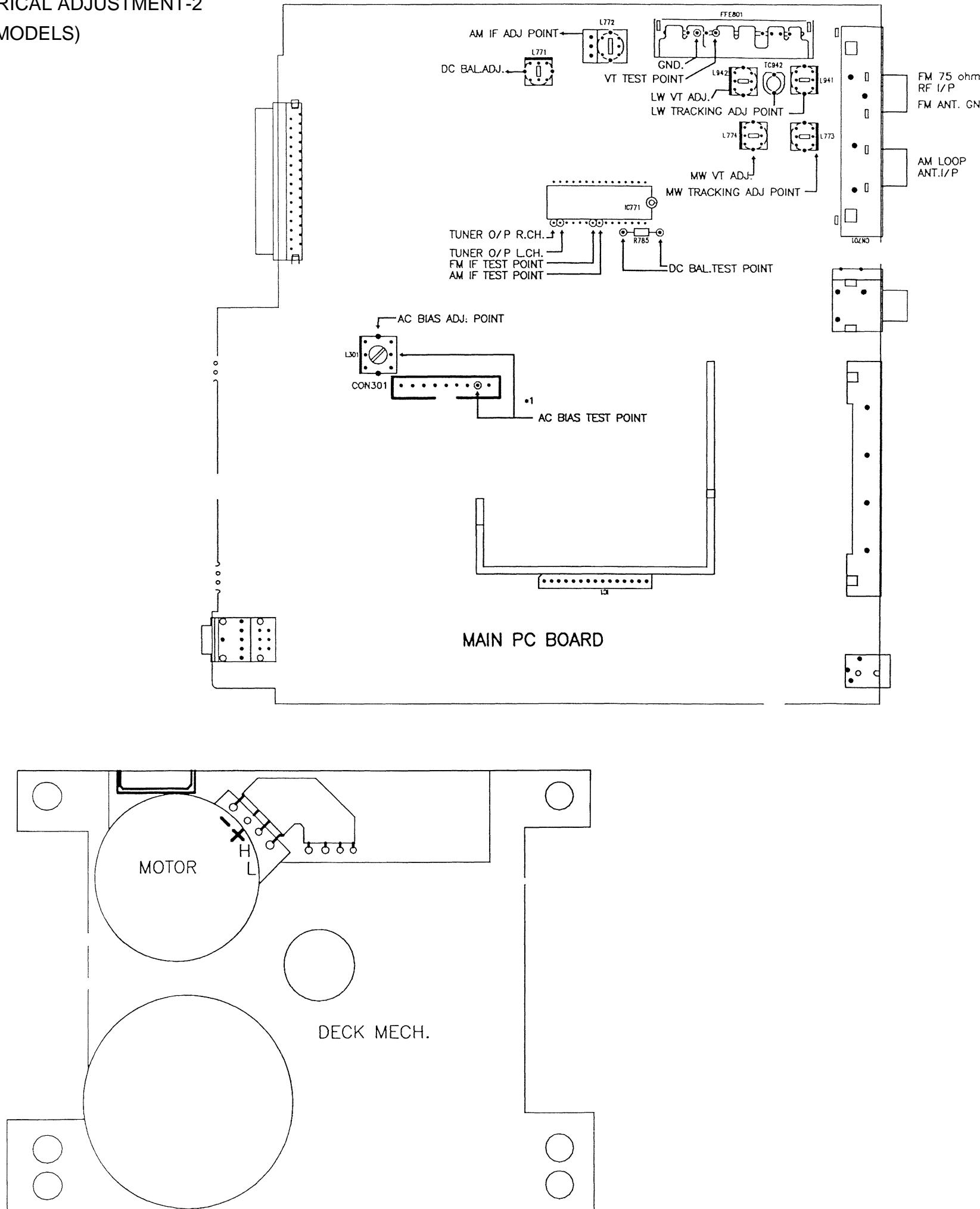
ELECTRICAL ADJUSTMENT-1

(HA, VJ MODELS)



ADJUSTMENT ITEM	ADJ. POINT	TEST POINT	SET FREQ.	SETTING
MW VT ADJ.	L774	FFE801 4PIN TO GND.	1602KHz OR 1710KHz	6.5V+/-0.1V
MW VT CHECK	-	FFE801 4PIN TO GND.	531KHz OR 530KHz	<= 2.0V
MW TRACKING ADJ.	L773	TUNER O/P L/R	999KHz OR 1000KHz	MAX.Output Sine Wave(Min.Dist.)
FM VT ADJ.	-	FFE801 4PIN TO GND.	108 MHz	<= 8V
FM VT CHECK	-	FFE801 4PIN TO GND.	87.5MHz	<= 2.5V
DC BAL. ADJ.	L771	Both Terminal OF R785	98 MHz	0 mv (+/- 20 mv)
FM IF CHECK	-	IC771 PIN 22	10.7 MHz	-
AM IF ADJ.	L772	IC771 PIN 24	450 KHz	-
REC. BIAS FREQ ADJ.	-	*1	-	80KHz +/- 3KHz (With R/P HEAD)
REC. BIAS LEVEL ONLY CHECK	L301	*1	-	(With R/P HEAD)
BEAT CUT ST / ON MONO/OFF	TEST ONLY	*1	FM 98MHz Deck REC.	4 KHz +/- 1 KHz
TAPE SPEED	MOTOR	SPEAKER OUTPUT	-	3000Hz +3/-2%
DECK R/P HEAD ADJ.	R/P HEAD	SPEAKER OUTPUT	8 KHz TEST TAPE	-

ELECTRICAL ADJUSTMENT-2
(K, EZ MODELS)



ADJUSTMENT ITEM	ADJ. POINT	TEST POINT	SET FREQ.	SETTING
MW VT ADJ.	L774	FFE801 4PIN TO GND.	1602KHz	5.5V+/-0.1V
MW VT CHECK	-	FFE801 4PIN TO GND.	531KHz OR 530KHz	<= 2.0V
MW TRACKING ADJ.	L773	TUNER O/P L/R	1000KHz	MAX. Output Sine Wave(Min.Dist.)
LW VT ADJ.	L942	FFE801 4PIN TO GND.	290KHz	5.0V+/-0.1V
LW VT CHECK	TEST ONLY	FFE801 4PIN TO GND.	144KHz	<= 2.5V
LW TRACKING ADJ.	TC942	TUNER O/P L/R	290KHz	MAX. Output Sine Wave(Min.Dist.)
	L941	TUNER O/P L/R	144KHz	
FM VT ADJ.	-	FFE801 4PIN TO GND.	108 MHz	<= 8V
FM VT CHECK	-	FFE801 4PIN TO GND.	87.5MHz	<= 2.5V
DC BAL. ADJ.	L771	Both Terminal OF R785	98 MHz	0 mv (+/- 20 mv)
FM IF CHECK	-	IC771 PIN 22	10.7 MHz	-
AM IF ADJ.	L772	IC771 PIN 24	450 KHz	-
REC. BIAS FREQ ADJ:	-	*1	-	80KHz +/- 3KHz (With R/P HEAD)
REC. BIAS LEVEL ONLY CHECK	L301	*1	-	(With R/P HEAD)
BEAT CUT ST / ON MONO/OFF	TEST ONLY	*1	FM 98MHz Deck REC.	4 KHz +/- 1 KHz
TAPE SPEED	MOTOR	SPEAKER OUTPUT	-	3000Hz +3/-2%
DECK R/P HEAD ADJ.	R/P HEAD	SPEAKER OUTPUT	8 KHz TEST TAPE	-

IC DESCRIPTION

IC, LC867240A-5P33

Pin No.	Pin Name	I/O	Description
1	O-SCONTM	O	M62439SP control. open drain output.
2	O-SCONTL	O	
3	O-DATA	O	Tuner control. CMOS output.
4	I-TUNE/IFC	I	Tuner control.
5	O-TUCL	O	Tuner control. CMOS output.
6	O-COIN	O	CD control. open drain output.
7	I-SQOUT	I	CD control.
8	O-CQCK	O	
9	O-RWC	O	CD control. open drain output.
10	O-CLKSFT	O	Clock shift output. "L" during shift. open drain output.
11	I-TMBASE	I	8 Hz time base input.
12	I-RESET	I	Reset input.
13	XT1	I	Input pin.
14	XT2	O	Output pin for 32.768kHz crystal oscillation.
15	VSS1	—	GND.
16, 17	CF1, CF2	I/O	Main clock input/output 5.76 MHz.
18	VDD1	—	+5V.
19	I-KEY0	I	KEY0 A/D input.
20	I-KEY1	I	KEY1 A/D input.
21	I-RDSIG	I	RDS signal level input. (A/D input)
22	I-WRQ	I	
23	I-DRF	I	CD control.
24	I-DOOR	I	CD door SW detection SW input. "L" at CLOSE.
25	I-PUIN	I	CD pick-up detection SW input. "L" at ON.
26	I-SWTAPE	I	Tape detection SW input. (A/D input)
27	I-STEREO	I	Monaural/stereo indication selector input. "L" at stereo.
28	I-RDCL	I	RDS clock input.
29	I-REM	I	Remote control input. (fall-down edge interrupt input)
30	I-HOLD	I	Hold mode detection. "L" at hold mode.
31	I-RDDT	I	RDS data input.
32	I-TPREC	I	Tape REC detection input. "H" at REC.
33	I-TPPLAY	I	Tape PLAY detection input. "H" at PLAY.
34	O-MOTOR	O	Mechanism deck motor ON/OFF output. "H" at ON. CMOS output.
35	O-PL	O	Mechanism deck plunger solenoid ON/OFF output. "H" at ON. CMOS output.
36-38	O-NC	O	Not used.
39-55	S9-S25	O	LCD SEG terminal Initial setting output. (S10 to S16)
56	VDD2	—	+5V.
57	VSS2	—	GND.
58-79	S26-S47	O	LCD SEG terminal.
80	I-CLKDSP	I	Watch indication select input "L": 12H. "H": 24H.
81	I-AS	I	Auto stop. counter input.

Pin No.	Pin Name	I/O	Description
82	I-STOP	I	Tape stop input.
83-86	COM0-COM3	O	LCD common output.
87	I-INIT	I	Initial setting input.
88	I-AC/DC	O	Beat selector output. "H" during selection. CMOS output.
89	VSS3	—	GND.
90	VDD3	—	5V.
91	O-NC	O	Not used.
92	O-TUCE	O	Tuner chip enable output. CMOS output.
93	O-CD-ON	O	"H" output during CD function. CMOS output.
94	O-TU-ON	O	"H" output during TU function. Open drain output.
95	O-RMT	O	REC mute output. "H" during mute. Open drain output.
96	O-REC/PB	O	REC/PB select output. "H" during PB. Open drain output.
97	O-MUTE	O	Mute output. "H" during mute. Open drain output.
98	O-PCONT	O	Power control output. "H" at ON. CMOS output.
99	O-BIAS	O	REC bias ON/OFF output. "H" at ON. Open drain output.
100	O-NC	O	Not used.

IC, LA9241ML

Pin No.	Pin Name	I/O	Description
1	FIN2	I	Pin to which external pickup photo diode is connected. RF signal is created by adding with the FIN1 pin signal. FE signal is created by subtracting from the FIN1 pin signal.
2	FIN1	I	Pin to which external pickup photo diode is connected.
3	E	I	Pin to which external pickup photo diode is connected. TE signal is created by subtracting from the F pin signal.
4	F	I	Pin to which external pickup photo diode is connected.
5	TB	I	DC component of the TE signal is input.
6	TE-	I	Pin to which external resistor setting the TE signal gain is connected between the TE pin.
7	TE	O	TE signal output pin.
8	TESI	I	TES “Track Error Sense” comparator input pin. TE signal is passed through a band-pass filter then input.
9	SCI	I	Shock detection signal input pin.
10	TH	I	Tracking gain time constant setting pin.
11	TA	O	TA amplifier output pin.
12	TD-	I	Pin to which external tracking phase compensation constants are connected between the TD and VR pins.
13	TD	I	Tracking phase compensation setting pin.
14	JP	I	Tracking jump signal (kick pulse) amplitude setting pin.
15	TO	O	Tracking control signal output pin.
16	FD	O	Focusing control signal output pin.
17	FD-	I	Pin to which external focusing phase compensation constants are connected between the FD and FA pins.
18	FA	I	Pin to which external focusing phase compensation constants are connected between the FD- and FA- pins.
19	FA-	I	Pin to which external focusing phase compensation constants are connected between the FA and FE pins.
20	FE	O	FE signal output pin.
21	FE-	I	Pin to which external FE signal gain setting resistor is connected between the FE pin.
22	AGND	—	Analog signal GND.
23	SP	—	Single ended output of the CV+ and CV- pin input signal.
24	SPI	I	Spindle amp input.
25	SPG	I	Pin to which external spindle gain setting resistor in 12 cm mode is connected.
26	SP-	I	Pin to which external spindle phase compensation constants are connected together with SPD pin.
27	SPD	O	Spindle control signal output pin.
28	SLEQ	I	Pin to which external sled phase compensation constants are connected.
29	SLD	O	Sled control signal output pin.
30, 31	SL-, SL+	I	Sled advance signal input pin from microprocessor.
32, 33	JP-, JP+	I	Tracking jump signal input pin from DSP.
34	TGL	I	Tracking gain control signal input from DSP. Low gain when TGL = H.
35	TOFF	I	Tracking off control signal input pin from DSP. Off when TOFF = H.

Pin No.	Pin Name	I/O	Description
36	TES	O	Pin from which TES signal is output to DSP.
37	HFL	O	“High Frequency Level” is used to judge whether the main beam position is on top of bit or on top of mirror.
38	SLOF	I	Sled servo off control input pin.
39, 40	CV-, CV+	I	CLV error signal input pin from DSP.
41	RFSM	O	RF output pin.
42	RFS-	I	RF gain setting and EFM signal 3T compensation constant setting pin together with RFSM pin.
43	SLC	O	“Slice Level Control” is the output pin which controls the RF signal data slice level by DSP.
44	SLI	I	Input pin which control the data slice level by the DSP.
45	DGND	—	Digital system GND.
46	FSC	O	Output pin to which external focus search smoothing capacitor is connected.
47	TBC	I	“Tracking Balance Control” EF balance variable range setting pin.
48	NC	—	No connection.
49	DEF	O	Disc defect detector output pin.
50	CLK	I	Reference clock input pin. 4.23 MHz of the DSP is input.
51	CL	I	Microprocessor command clock input pin.
52	DAT	I	Microprocessor command data input pin.
53	CE	I	Microprocessor command chip enable input pin.
54	DRF	O	“Detect RF” RF level detector output.
55	FSS	I	“Focus Search Select” focus search mode (\pm search/+ search) select pin.
56	VCC2	—	Servo system and digital system Vcc pin.
57	REFI	—	Pin to which external bypass capacitor for reference voltage is connected.
58	VR	O	Reference voltage output pin.
59	LF2	I	Disc defect detector time constant setting pin.
60	PH1	I	Pin to which external capacitor for RF signal peak holding is connected.
61	BH1	I	Pin to which external capacitor for RF signal bottom holding is connected.
62	LDD	O	APC circuit output pin.
63	LDS	I	APC circuit input pin.
64	VCC1	—	RF system Vcc pin.

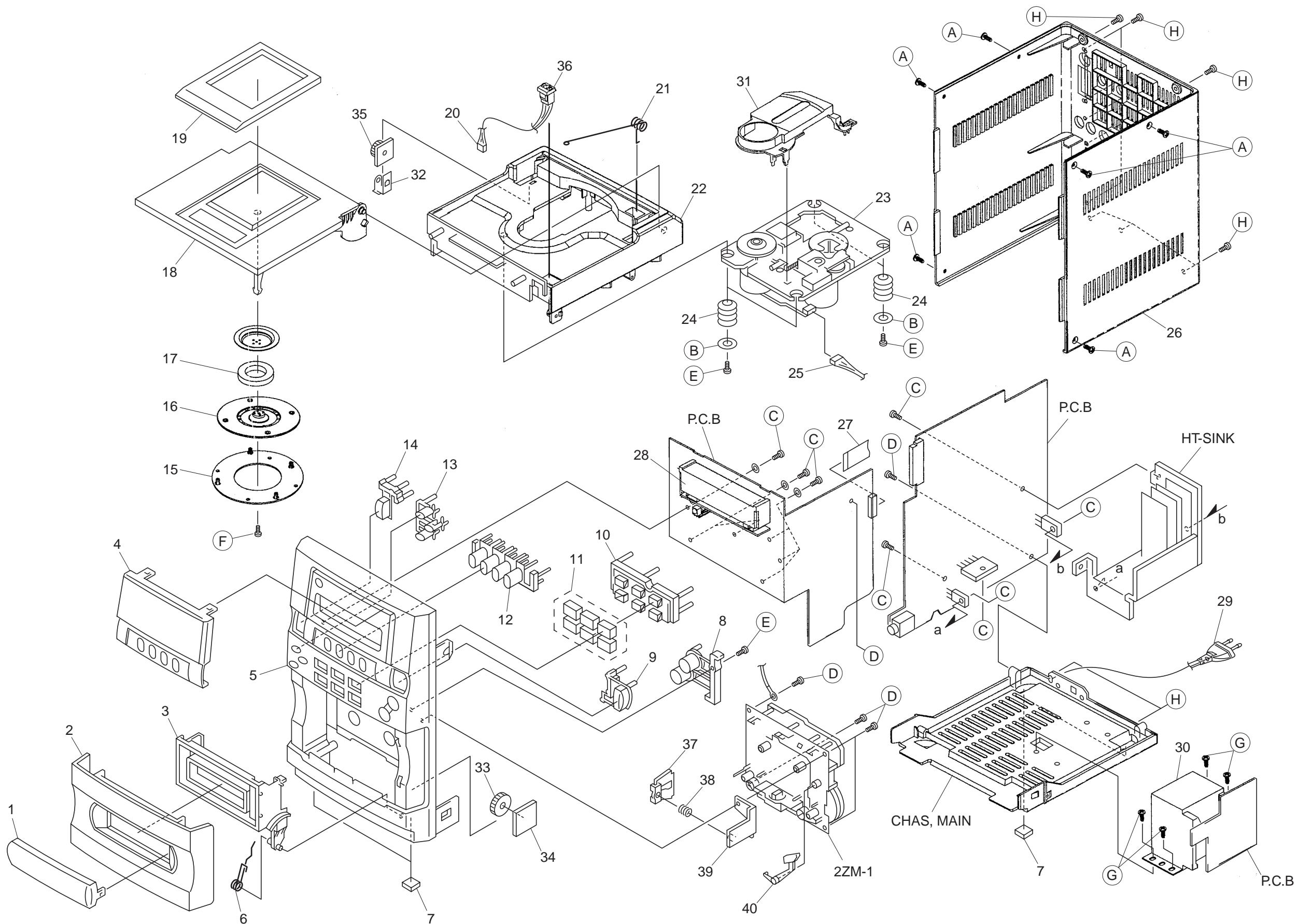
IC, LC78622ED

Pin No.	Pin Name	I/O	Description	
1	DEFI	I	Defect sense signal (DEF) input pin. (Connect to 0V when not used).	
2	TAI	I	For PLL.	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
3	PDO	O		Phase comparator output pin to control external VCO.
4	VVSS	—		GND pin for built-in VCO. Be sure to connect to 0V.
5	ISET	I		Pin to which external resistor adjusting the PD0 output current.
6	VVDD	—		Power supply pin for built-in VCO.
7	FR	I		Pin for VCO frequency range adjustment.
8	VSS	—	Digital system GND. Be sure to connect to 0V.	
9	EFMO	O	For slice level control.	EFM signal output pin.
10	EFMIN	I		EFM signal input pin.
11	TEST2	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
12, 13	CLV+, CLV-	O	Disc motor control output. Three level output is possible using command.	
14	V/P	O	Rough servo or phase control automatic selection monitoring output pin. Rough servo at H. Phase servo at L.	
15	HFL	I	Track detect signal input pin. Schmidt input.	
16	TES	I	Tracking error signal input pin. Schmidt input.	
17	TOFF	O	Tracking OFF output pin.	
18	TGL	O	Tracking gain selection output pin. Gain boost at L.	
19, 20	JP+, JP-	O	Track jump control signal output pin. Three level output is possible using command.	
21	PCK	O	EFM data playback clock monitoring pin 4.3218 MHz when phase is locked in.	
22	FSEQ	O	Sync signal detection output pin. H when the sync signal which is detected from EFM signal and the sync signal which is internally generated agree.	
23	VDD	—	Digital system power supply pin.	
24-28	SL+, SL-, CONT3-5	I/O	General purpose input/output pin 1 to 5.	The pin is controlled by the serial data command from microprocessor. When the pin is not used, set the pin to the input terminal and connect to 0V, or alternately set the pin to output terminal and leave the pin open.
29	EMPH	O	De-emphasis monitor output pin. De-emphasis disc is being played back at H.	
30	C2F	O	C2 flag output pin.	
31	DOUT	O	DIGITAL OUT output pin. (EIAJ format).	
32, 33	TEST3, TEST4	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
34	N.C.	—	Not used. Set the pin to open.	
35	MUTEL	O	L-channel 1-bit DAC.	L-channel mute output pin.
36	LVDD	—		L-channel power supply pin.
37	LCHO	O		L-channel output pin.
38	LVSS	—		L-channel GND. Be sure to connect to 0V.
39	RVSS	—	R-channel 1-bit DAC.	R-channel GND. Be sure to connect to 0V.
40	RCHO	O		R-channel output pin.
41	RVDD	—		R-channel power supply pin.
42	MUTER	O		R-channel mute output pin.

Pin No.	Pin Name	I/O	Description	
43	XVDD	—	Crystal oscillator power supply pin.	
44	XOUT	O	Pin to which external 16.9344 MHz crystal oscillator is connected.	
45	XIN	I		
46	XVSS	—	Crystal oscillator GND pin. Be sure to connect to 0V.	
47	SBSY	O	Subcode block sync signal output pin.	
48	EFLG	O	C1, C2, single and dual correction monitoring pin.	
49	PW	O	Subcode P, Q, R, S, T, U and W output pin.	
50	SFSY	O	Subcode frame sync signal output pin. Falls down when subcode enters standby.	
51	SBCK	I	Subcode read clock input pin. Schmidt input. (Be sure to connected to 0V when not in use.)	
52	FSX	O	Pin outputting the 7.35 kHz sync signal which is generated by dividing frequency of crystal oscillator.	
53	WRQ	O	Subcode Q output standby output pin.	
54	RWC	I	Read/write control input pin. Schmidt input.	
55	SQOUT	O	Subcode Q output pin.	
56	COIN	I	Command input pin from microprocessor.	
57	CQCK	I	Command input read clock or subcode read input clock from SQOUT pin	
58	RES	I	LC78622 reset input pin. Set this pin to L once when the main power is turned on.	
59	TST11	O	Test signal output pin. Use this pin as open (normally L output).	
60	16M	O	16.9344 MHz output pin.	
61	4.2M	O	4.2336 MHz output pin.	
62	TEST5	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
63	CS	I	Chip select signal input pin with built-in pull-down resistor. Be sure to connect to 0V while it is not controlling.	
64	TEST1	I	Test signal input pin without built-in pull-down resistor. Be sure to connect to 0V.	

Note: The same potential must be applied to the respective power supply terminals. (VDD, VVDD, LVDD, RVDD, XVDD)

MECHANICAL EXPLODED VIEW 1/1



MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CLA-007-010		WINDOW,CASS	28	8Z-CL8-201-010		GUIDE,LCD
2	8A-CLL-001-010		LID,CASS	29	87-A80-105-010		AC CORD ASSY,AZ<HAS>
3	8A-CLA-006-010		BOX,CASS	29	87-A80-092-010		AC CORD ASSY,E BLK SUN FAI<KS,EZS,VJS>
4	8A-CLA-004-010		WINDOW,DISP	30	8A-CLL-621-010		PT,EZ ACL-L<KS,EZS,VJS>
5	8A-CLA-001-010		CABI,FRONT<HAS,VJS>	30	8A-CLL-620-010		PT,H ACL-L<HAS>
5	8A-CLA-023-010		CABI,FRONT EZ<KS,EZS>	31	8Z-CDB-169-010		PANEL,CD SANYO
6	8Z-CL8-209-010		SPR-T,CASS	32	8Z-CL8-214-010		DMPR,HLDL BE
7	8Z-CL8-204-010		CUSH,FOOT	33	84-CD5-215-010		GEAR
8	8A-CLA-010-010		KEY,VOL	34	84-CD5-216-010		BRACKET
9	8A-CLA-013-010		KEY,TIMER /SLEEP	35	86-NFZ-231-010		DMPR,70
10	8A-CLA-008-010		KEY,CONT	36	87-064-108-110		HLDL,NC LUTCH
11	8A-CLA-009-010		KEY,CONT CAP SET	37	82-NF5-229-010		PLATE,LOCK
12	8A-CLA-015-010		KEY,FUNC	38	82-NF5-228-010		SPR-C,LOCK
13	8A-CLA-011-010		KEY,GEQ	39	88-CL5-202-010		HLDL,CASS LOCKE R
14	8A-CLA-012-010		KEY,POWER	40	88-CL5-203-010		LEVER,CASS LOCKE R
15	8Z-CDB-170-010		BASE,CHUCK	A	87-B10-239-010		QT2+3-8 W/O CR
16	88-CD9-211-210		RING,CHUCK	B	8Z-CL8-220-010		W,30-0856-01-01-01
17	87-036-368-010		MAGNET	C	87-067-579-010		TAPPING SCREW, BVT2+3-8
18	8A-CLA-002-010		LID,CD	D	87-067-703-010		TAPPING SCREW, BVT2+3-10
19	8A-CLA-014-010		WINDOW,CD	E	87-342-074-010		UT2+2.6-8
20	8Z-CL8-683-010		CONN ASSY,2P CD DOOR	F	87-571-033-410		TAPPING SCREW, VIT+2-4
21	8Z-CL8-205-010		SPR-T,CD	G	87-761-097-410		VFT2+3-12 SLOT
22	8A-CLA-003-010		CHAS,CD	H	87-B10-230-010		BVT2+3-10 W/O SLOT SILVER CR
23	M8-ZZK-E90-070		DA11T3C				
24	88-CT6-206-010		CUSHION,CD				
25	8Z-CL8-681-010		CONN ASSY,6P CD MOTOR				
26	8A-CLA-021-010		CABI,REAR<VJS>				
26	8A-CLA-024-010		CABI,REAR EZ<KS,EZS>				
26	8A-CLA-030-010		CABI,REAR H<HAS>				
27	8Z-CL8-682-010		FF-CABLE, 16P 1.0 180MM				

COLOR NAME TABLE

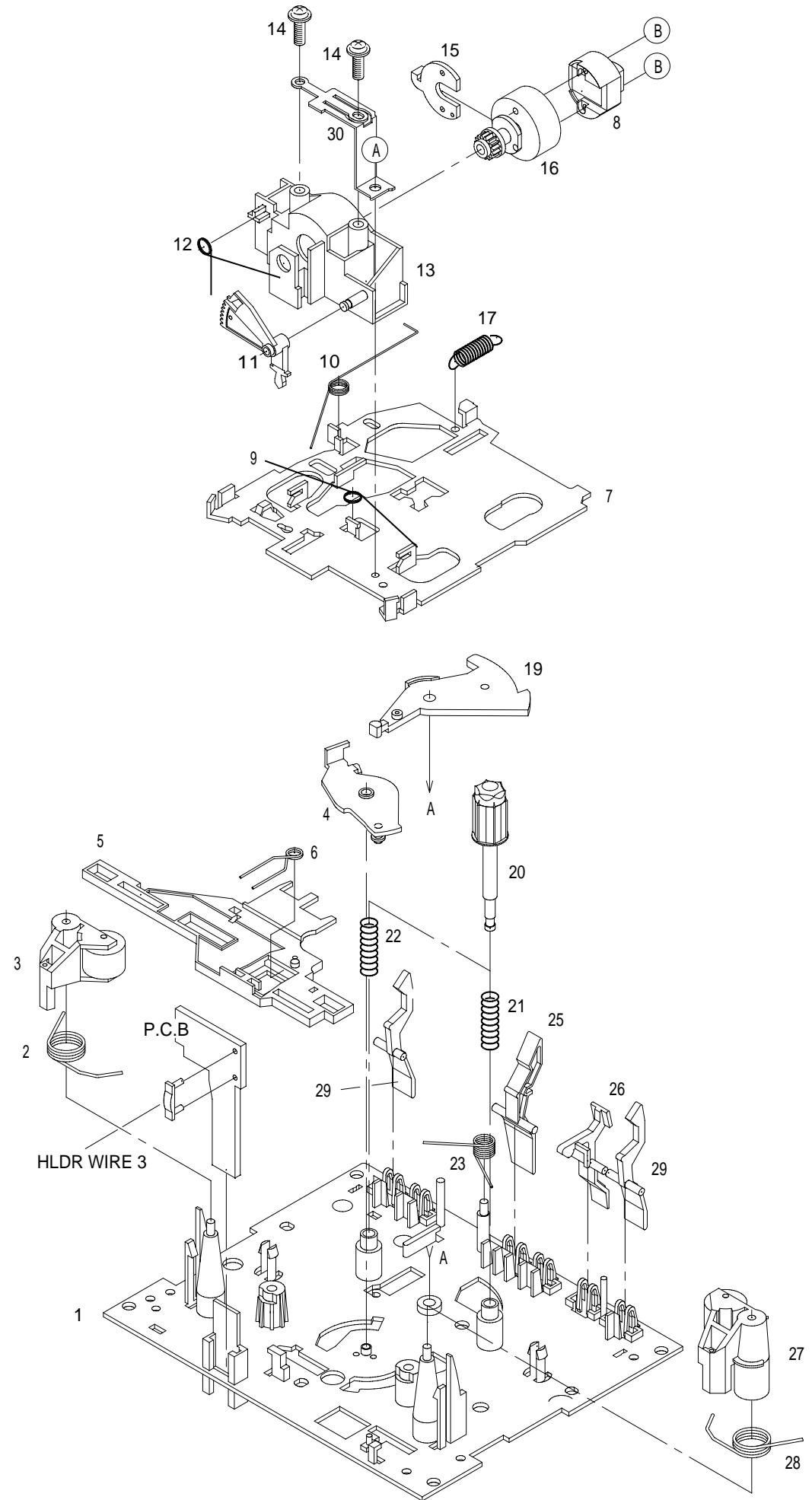
Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

TAPE MECHANISM PARTS LIST 1/1

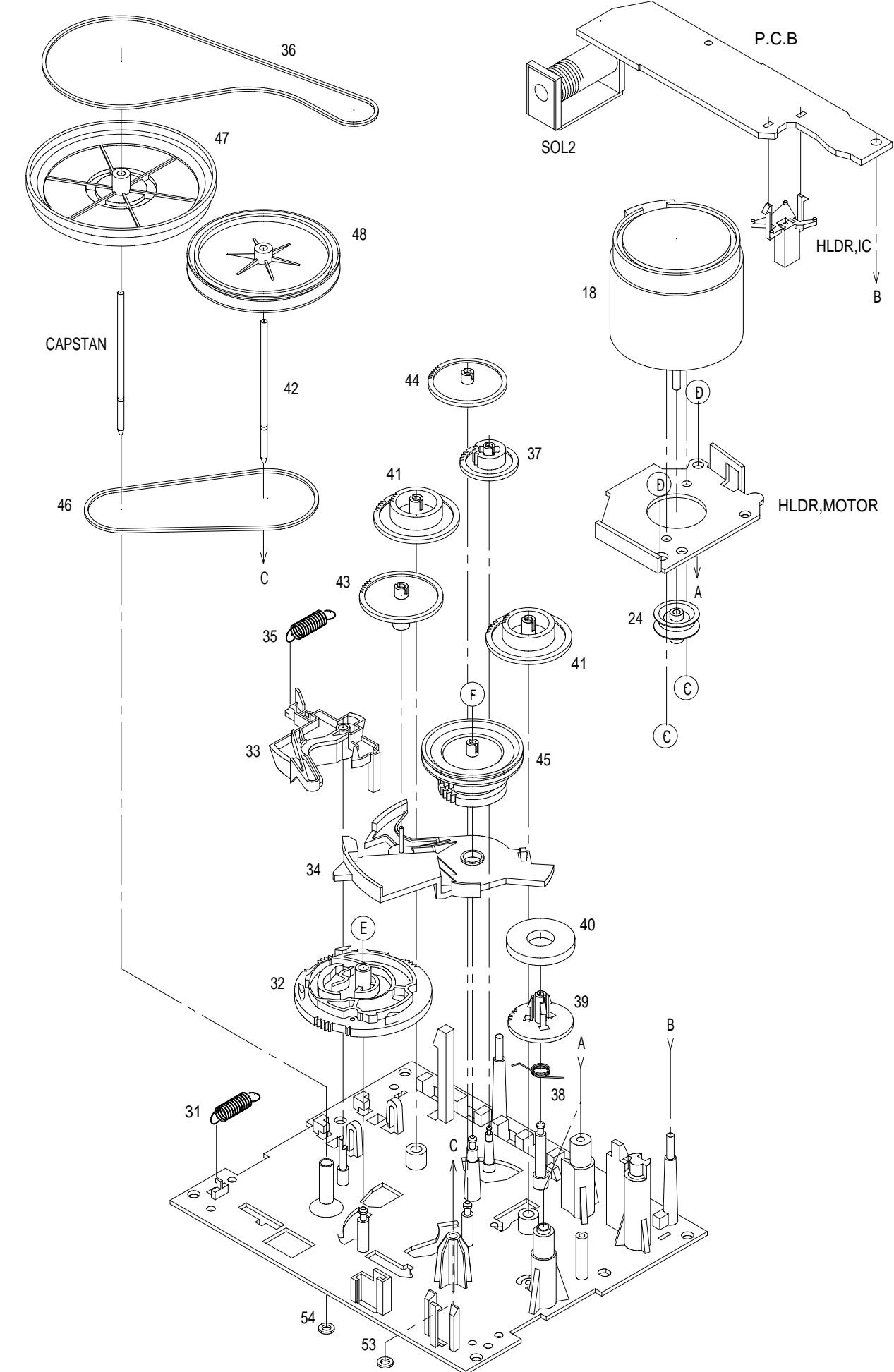
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM1-327-310		CHAS ASSY,RM	31	82-ZM1-255-310		SPR-E,LVR DIR
2	82-ZM1-258-210		SPR-T,PINCH L	32	82-ZM1-221-310		GEAR,CAM(*)
3	82-ZM1-341-210		LVR ASSY,PINCH L2	33	82-ZM1-227-310		LVR,TRIG
4	82-ZM1-295-310		PLATE ASSY LINK	34	82-ZM1-224-410		LVR,FR
5	82-ZM1-266-310		LVR,DIR	35	82-ZM1-305-210		SPR-E,TRIG 2
6	82-ZM1-214-010		SPR-T,DIR	36	82-ZM1-340-010		BELT,SBU MAIN2
7	82-ZM1-206-910		CHAS,HEAD	37	82-ZM1-223-010		GEAR,PLAY
8	87-046-399-110		HEAD,PPH YK56R-BS411	38	82-ZM1-322-010		SPR-T,FR 60
9	82-ZM1-269-210		SPR-T,BRG	39	82-ZM1-220-210		GEAR, IDLER
10	82-ZM3-323-110		SPR-T,LINK 3	40	82-ZM3-616-010		RING MAGNET 4
11	82-ZM1-210-110		GEAR,H T	41	82-ZM1-216-410		GEAR,REEL
12	82-ZM1-213-010		SPR-T,HEAD	42	82-ZM1-236-010		CAPSTAN,2-41.5
13	82-ZM1-207-910		GUIDE,TAPE	43	82-ZM1-225-210		GEAR,FR
14	82-ZM1-283-310		S-SCREW,AZIMUTH	44	82-ZM1-226-010		GEAR,REW
15	82-ZM1-314-110		PLATE,HEAD	45	82-ZM3-333-310		SLIP DISK ASSY 2
16	82-ZM1-208-310		HLDL,HEAD	46	82-ZM1-338-110		BELT,FR 4
17	82-ZM1-218-010		SPR-E,HB	47	82-ZM1-349-110		FLY-WHL,R W
18	87-045-347-010		MOT,SHU2L 70	48	82-ZM1-348-110		FLY-WHL,L W
19	82-ZM1-222-210		LVR,PLAY	A	82-ZM1-315-010		S-SCREW GUIDE TAPE
20	82-ZM1-217-410		REEL TABLE	B	80-ZM6-207-010		V+1.6-7
21	82-ZM1-244-510		SPR-C,BT	C	87-251-070-410		U+2.6-3
22	82-ZM1-285-410		SPR-C,BT L	D	87-741-073-410		UT2+2.6-6 GLD
23	82-ZM1-257-010		SPR-T,CAS	E	87-B10-008-010		W-P,2.08-8-0.4-SLIP
24	82-ZM1-247-110		PULLEY,MOTOR				
25	82-ZM1-242-010		LVR,CAS				
26	82-ZM1-243-010		LVR,STOP				
27	82-ZM1-344-210		LVR ASSY,PINCH R2				
28	82-ZM1-259-210		SPR-T,PINCH R				
29	82-ZM1-240-110		LVR,REC(*)				
30	82-ZM1-298-010		SPR-P EARTH				

TAPE MECHANISM EXPLODED VIEW 1/1

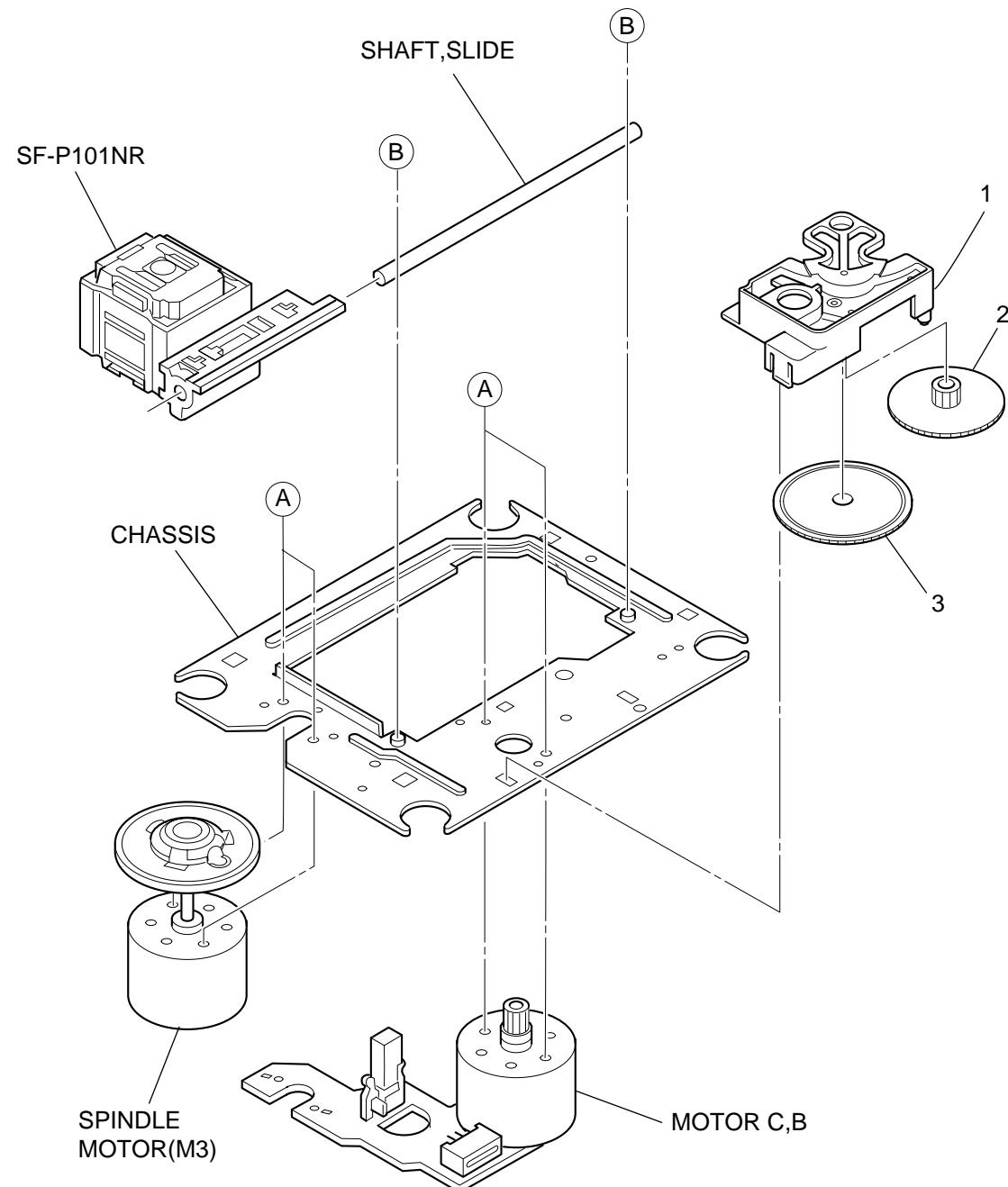


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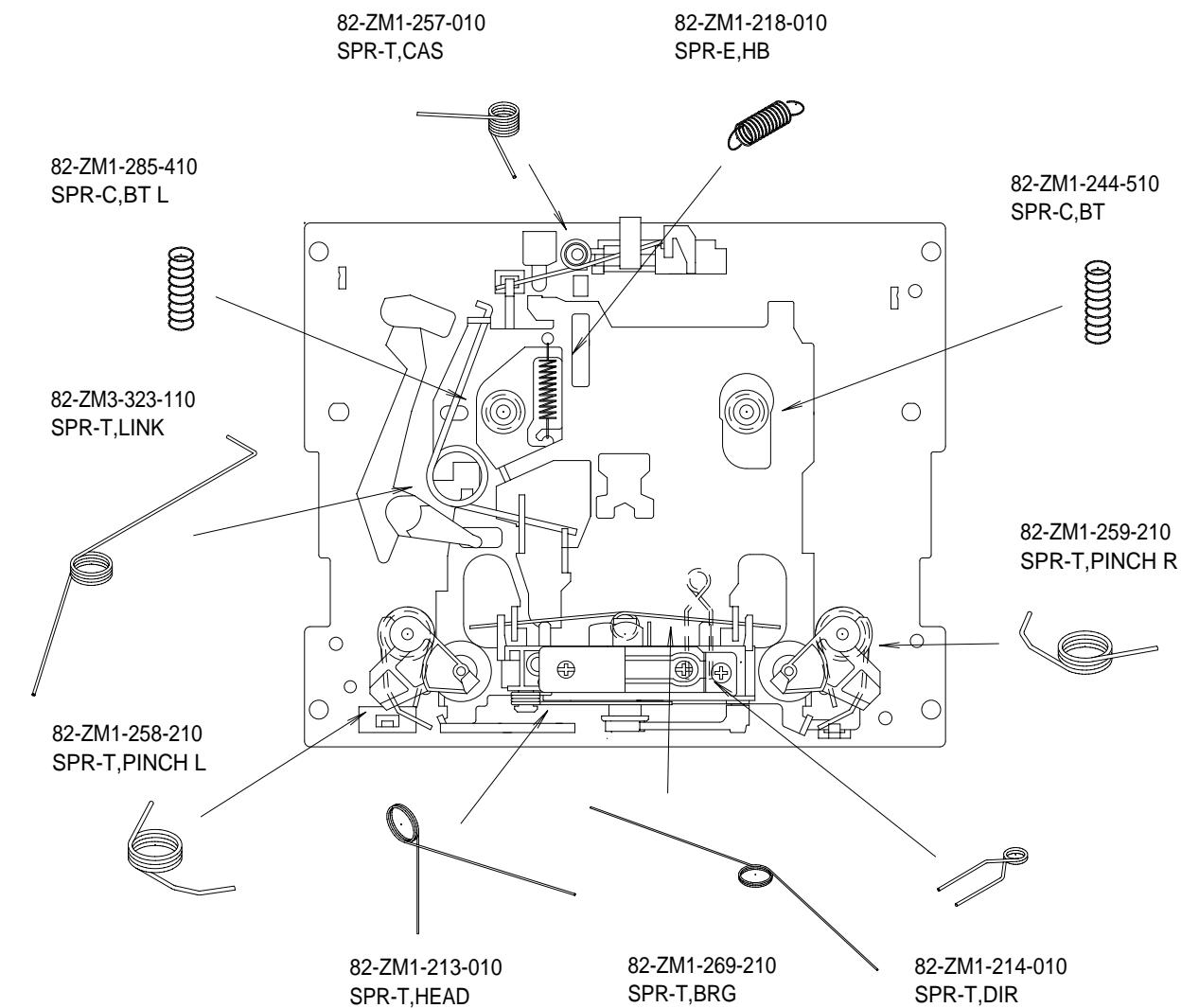


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CD MECHANISM EXPLODED VIEW 1/1



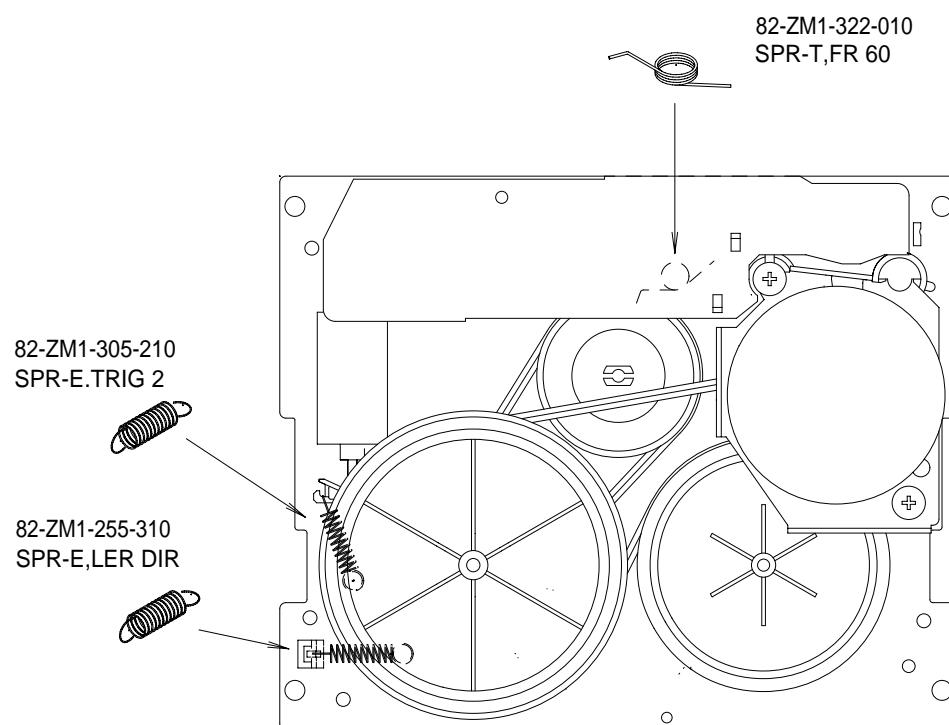
SPRING APPLICATION POSITION



CD MECHANISM PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	S2-121-A28-400		COVER GEAR
2	S2-511-A21-000		GEAR MIDDLE
3	S2-511-A21-100		GEAR, DRIVE
A	S1-PN2-03R-0SE		SCR PAN PCS 2-3
B	87-261-073-410		SCR S-TPG FILT 2.6-6
ALL	M8-ZZK-E90-070	DA11T3C	



SPEAKER PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CLL-600-010		SPKR, 40HM 5W ACL-L
2	8A-CLA-017-010		CABI,FR SPKR
3	8A-CLA-022-010		CLOTH,SPKR
4	8A-CLA-019-010		FRAME,SPKR
5	86-CL9-214-010		HLDR,CORD(SPKR)
6	8A-CLL-601-010		CORD,SPKR-BLK ACL-L/M



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